	Printed, the document is not a controlled	document.		Level:
gerresheimer	38290L-3000 I			
Document owner:	1			Approved by:
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Version:				
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Document users:		Document no.:	Standard	Product Database
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Product Specification and Certificate

Product no.	3829OL-3000
Product name	Duma OneLiner 3829 OL
Product description	45 mm round plastic child-resistant tamper-evident screw cap with a liner for induction sealing. Intended for the sealing of: - Duma Twist-Off - Duma Twist-Off Q 35 - 600 ml HDPE Containers - 75 - 200 ml HDPE Containers
Design	 Regulatory drawing A3829OL Regulatory Standard drawing B3829OL
Raw material	Bormed HF840MO, Polypropylene (PP), Homopolymers in compliance with Regulation (EU) 10/2011, FDA title 21 CFR § 177.1520 'Olefin Polymers' and BfR recommendation VII 'Polypropylen', Borealis A/S. This product meets the standards set by the United States Pharmacopoeia USP 39 <661.1> Plastic Materials of Construction - Identification, physicochemical tests (with exception of absorbance and total organic carbon tests), and extractable metals tests (as listed in the chapter). Plastic additive tests are done according to Borealis' internal methods. Coloured with 2.0 - 2.8% white masterbatch, containing approx. 59% titanium dioxide. HF840MO Declaration
Colour	PP 12455 White MB, Polypropylene (PP) in compliance with Commission Regulation (EU) No 10/2011, FDA title 21 CFR § 178.3297 and BfR recommendation IX, Avient (formerly Clariant). PP12455 Declaration
Liner	Safe-Gard Plus in compliance with Regulation (EU) 10/2011, Selig. Safe-Gard plus 205/N, Selig Declaration
Production	Facility: Vaerloese, Denmark Process: The caps are injection moulded and the liner is mounted without use of adhesive Hygiene: The production takes place in clean room Sterilisation: N/A

Measures and Properties

Dimensions:	-		
External:		Internal:	
Height	29.0 +0.5/-0.3 mm	Diameter	38.0 +0.3/-0.2 mm
Diameter	45.0 +0.5/-0.5 mm	Base ring	40.6 +0.2/-0.2 mm
Other dimensions:			
Total weight	11.2 +0.7/-0.7 g	Opening force	1.4 +0.5/-0.5 Nm
Shelf life	1 year	Bioburden	Max. 50 CFU

Test Results

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Document users:		Document no.:	Standard F	Product Database
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The container and cap comply with all demands for Moisture Vapour Transmission and are in accordance with USP <671>. A Light Transmission test is not relevant for this product. Documentation enclosed.

MVT - 045125-3000/3829OL-3000/OCT2018

When applying the Duma OneLiner / Duma Easy-Peel to the corresponding container the package is Child-Resistant and suitable for senior adults.

Child-Resistant Statement 3829OL

The container and cap comply with all demands for Internal Reflectance and Differential Scanning Calorimetry and are in accordance with USP <661.1>. Documentation enclosed. Over time IR spectrum might show absorbance from release agent.

IR - HF840MO / PP12455

IR - Liner

DSC PP/AUG2016

The container and cap comply with all demands for Physicochemical Tests set by the United States Pharmacopoeia USP 43 <661.2> Plastic Packaging Systems for Pharmaceutical Use and Biological Reactivity Tests, In vitro set by the USP chapter <87>. Documentation enclosed.

Physico - GF4760/HF840MO/Purell 2007H In vitro - HF840MO/PP12455/JUN2016

Recommendation for running-in of new Duma OneLiner

Running-in of new Duma OneLiner

Packing and Way of Delivery

The products are packed in 1 PE bag, which is then sealed. The PE bag is put into a cardboard carton, which is sealed with PP-tape. The cartons are packed on pallets, which are 1200 x 800 x 140 mm and weight approximately 23 kg.

Carton dimensions:

Height (mm): 340 Length (mm): 580 Width (mm): 385

Packing information:

Number of items per carton: 1100 Volume per carton (m³): 0.08 Max. number of cartons per pallet: 20 Weight per carton (kg.): 13.2

Max. height of the pallet (mm): 1900

Labelling

Each carton is provided with a label with the following information:

Manufacturer name

Material name and number

Batch / lot number and quantity

Customer information (if requested)

Country of origin

Shelf life

Production date and machine number

Requirement and recommendation to Storage, Handling and Transportation

Stored inside in clean conditions in its original un-open packaging, protected from direct sunlight.

The Duma OneLiner is sensitive to temperature and humidity and necessary precautions must be taken during transport, handling and processing.

Optimum ambient conditions are 15-30 °C and 40-60% Relative Humidity.

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Avoid sudden temperature changes and thermal shocks (extremes in hot to cold or cold to hot).

• Allow the liners to acclimate to processing room conditions for at least 48 hours.

Quality Control

All products are quality controlled according to instructions specified in our quality control system. We therefore guarantee that all deliveries from Primary Packaging Plastics have passed our control procedures and comply with the quality demands mentioned below. If required a certificate of conformance can be issued. The classification of defects and specifications of AQL values are based on ISO 2859 and Quality Assurance of Pharmaceutical and Cosmetic Packaging Materials:

Defect Evaluation List for Blow-moulded Plastic Containers Vol. 23 - ISBN 3-87193-405-6. Defect Evaluation List for Injection-moulded parts made of Plastic: Closures, Sealing Disks and dosage aids (droppers, etc.) Vol. 22 - ISBN 3-87193-182-9.

Documentation enclosed.

Quality Control - Duma OneLiner with CR

Declaration of Conformity

DoC EP (HF 840MO)

DoC Food Law (HF840MO)

DoC TSE/BSE

Duma T-Off Cap&with Desic.& OneLiner&Pocket CR DoC Allerg, Phthal, BPA,Latex, Melam DoC TBA TCA

Information on Packaging and Packaging Waste Directive 94/62/EC and/or CONEG

Both container, cap and bag are produced from material, which complies with the directions for plastics material in contact with foodstuffs. The content of heavy metals in the products, the inner bag, and the carton is less than 100 ppm.

The products can be utilised by recovery of material and because of a high heating value by recovery of energy.

REACH

We can confirm that the raw materials used in the product are either pre-registered or exempted from pre-registration.

Complaint Handling

In case that the delivered products are outside specification, complaint must be send in writing to daily contact person in Customer Care Center.

In order to ensure a thorough investigation it is important to send the following basic information:

- Article number
- Batch number
- Cavity number (if related to specific cavities)
- Number of defective items
- Defect observed in
 - a) incoming control including sample size
 - b) production including quantity of items used

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- c) final products including quantity of items used
- d) market complaint
- Defect found in
 - a) one carton
 - b) several cartons please specify quantity
- Exact production date/time from carton/bag or carton/bag/pallet number products in quarantine:
 - a) Filled products Quantity
 - b) Not filled products Quantity
 - c) No products left
- Description of the defect

The following standard form can be used: 3.1 Customer Complaint Report.

Depending on the defect, additional information will be requested as described in the attached standard forms: 2.5 Information requested in relation to complaints.

It is very important to send samples at the time a complaint is filed, as any delay in these can have an impact on time of investigation. An investigation report is send to Customer within 21 days counting from when complaint, relevant information and samples are received.

Important!

Filled or empty products involved in a complaint to Primary Packaging Plastics, must only be destroyed by Customer after written approval from Gerresheimer. Any activity in connection with a complaint where Customer expect Gerresheimer to cover the costs must be approved by Gerresheimer in writing before initiation of the activity.

Complaint report

Labelling

Loose silica gel-loose desiccant-defect on desiccant

Mix-up

Partly- or disconnected TE-rings

Product defect

Transport

Registrations and Certifications

Primary Packaging Plastics was established in 2020. Before that time the company was working under the following names: Gerresheimer Plastic Packaging, Superfos Pharma, Superfos Pharma Pack, Dudek Plast and Duma.

Documentation, i.e. test reports, certificates etc. issued before July 2020 will be with reference to one of the names above.

Gerresheimer Vaerloese A/S has obtained the following registrations and certifications for Vaerloese and Haarby, Denmark:

ISO 9001, no. 160454-2014-AQ-DEN-DANAK

ISO 14001, no. 156579-2014-AE-DEN-DANAK

ISO 15378, no. 160455-2014-Q-DEN-DNV

ISO 45001, no. 10000341648-MSC-DANAK-DNK

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Document users:		Document no.:	Standard Product Database
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The product is FDA registered in US with the following DMF number:

DMF 12077 - DMF type III Packaging material, Manufactured in Vaerloese - Denmark, Haarby - Denmark.

The product is TPD registered in Canada with the following DMF number:

DMF 2000-108 - Packaging material – Drug Master File. Packaging material, Manufactured in Vaerloese - Denmark, Haarby - Denmark.

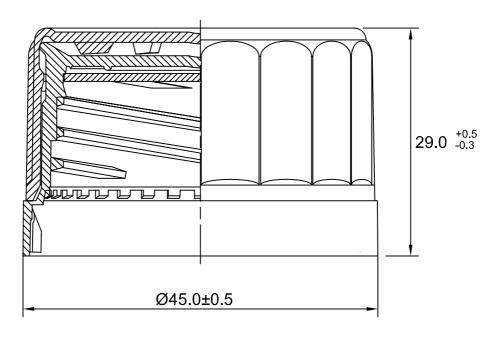
Revisions

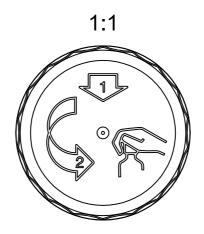
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1.28	2020.04.16	DoC TBA_TCA: Updated
1.29	2020.04.20	DoC EP (HF 840MO): New division name_Primary Packaging Plastic
1.30	2020.04.29	Complaint handling: New division name_Primary Packaging Plastic
1.31	2020.05.19	IR - HF840MO / PP12455: Updated
1.32	2020.08.18	Registrations and Certifications with FDA and TPD: ISO 45001 obtained
1.33	2020.08.19	Physico - GF4760/HF840MO/Purell 2007H: Updated Physico/In vitro - General: USP 43 <661.2>
1.34	2020.08.25	Quality Control - General text: Updated name Primary Packaging Plastics
1.35	2020.09.09	HF840MO Declaration : Medical use and Chemicals, Regulations and Standards statements updated
1.36	2020.09.27	Avient PP 12455: Clariant name change to Avient
1.37	2020.10.19	PP12455 Declaration: Food contact and FDA declarations updated with a new Logo
1.38	2020.10.30	Safe-Gard plus 205/N, Selig Declaration: Updated with 2020/1245
1.39	2020.11.10	HF840MO Declaration : Food contact declaration updated

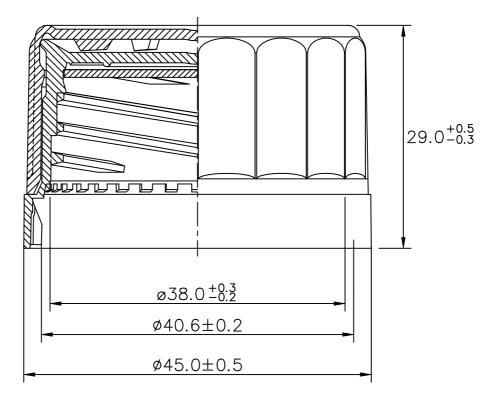
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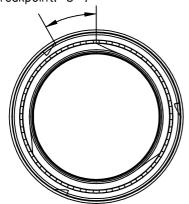


Replaced drawing			GERRESHEIMER	
Designer	Hek	12.01.2015	Gerresheimer Vaerloese A/S Walgerholm 2-8, Postbox 229 DK-3500 Vaerloese	Phone +45 4477 7888 Fax. +45 4477 7892
Released	BS	12.01.2015	This drawing may not be handed over Item Duma Twist-Off	er, copied or used by others No. A3829OL
Scale 1:1	Drawing Type Regulatory	Size A4	3829OL	Vers. no.: 1

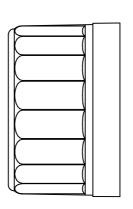
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Number of grooves from start to first breakpoint: 5-7



1:1





Number of grooves added	06.07.2012	MF	06.07.2012	994
Liner added.	27.05.2011	MG	27.05.2011	ナン
Change of name and item no.	24.05.2011	MF	24.05.2011	A
Created	17.11.2010	MG	17.11.2010	A
Created / Correction	Date	Sign.	Appr. Date	Sign.

GERRESHE MER

Gerresheimer Vaerloese A/S
Walgerholm 2-8, Postbox 229 Phone +45 4477 7888
DK-3500 Vaerloese Fax. +45 4477 7892
This drawing may not be handed over, copied or used by others

Duma OneLiner 38290L

B38290L

Vers. no.:



DECLARATION OF COMPLIANCE TO FOOD CONTACT REGULATIONS

We confirm that this product fulfils the applicable requirements on substances used for the manufacturing of materials and articles or components of articles intended to come into contact with food as described in the below cited legislation and standards.

EU

The below listed regulations represent harmonised EU legislation and are directly applicable in all EUmember states. National legislation implementing such regulations is therefore not separately cited in this document.

We would like to stress that this product is a **Plastic Intermediate Material** as defined in chapter 4.3.1. of *Union Guidance on Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food as regards information in the supply chain, from 28.11.2013. Therefore this confirmation is restricted to the requirements as applicable for Plastic Intermediate Materials used for the manufacturing of materials and articles or components of articles intended to come into contact with food.*

- Commission Regulation (EC) No 1935/2004. The organoleptic characteristics of food contact
 materials are influenced by converting conditions, time and temperature of storage and type of
 food, therefore compliance with article 3 §1,c must be verified and tested by the producer of the
 final packaging material.
- Commission Regulation (EU) No. 10/2011 as amended. All used monomers and additives are listed in Annex I of this regulation. For any applicable restrictions see chapter "migration testing".
- Commission Regulation (EC) No. 2023/2006. This material has been manufactured in accordance with the relevant requirements of good manufacturing practice for materials articles intended to come into contact with food, as described in more detail in the "Borealis AG responses to customer inquiries" on Borealis' homepage.
- Commission Regulation (EC) No. 1895/2005 BADGE, NOGE and BFDGE are not used for the production of this grade.
- Commission regulation (EC) No. 450/2009 on active and intelligent materials and articles is not applicable to Borealis' polymer resins.

Additional national legislation in EU-member states (as amended to date)

Polymerisation production aids, aids to polymerisation, colorants and solvents, if not already listed in Annex I of Regulation (EU) No. 10/2011 can be used based on their national approval and are subject to mutual recognition. The process chemicals used for the manufacturing of this grade are permitted by

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at least one of the following national regulations/recommendations, or are to be deemed safe based on a risk assessment conducted in accordance with article 19 of Regulation (EU) No. 10/2011.

France Décret No. 2007-766 du 10 mai 2007 portant application du code de la

consommation en ce qui concerne les matériaux et les objets destinés à entrer en contact avec les denrées alimentaires, as amended and the French DGCCRF

guidelines on food contact plastics.

Germany BfR-Empfehlung

VII Polypropylen, Stand 01.06.2019

The Netherlands Verpakkingen- en Gebruiksartikelenbesluit, 2014 (Warenwet), Deel A, Hoofdstuk

1, Kunststoffen, as amended (last update from 14.12.2019)

Europe (Non-EU-countries)

Norway Sosial- og helsedepartementets forskrift 1993-12-21-1381 - as amended

(referring to Regulation EU No. 10/2011)

Switzerland Verordnung der EDI über Bedarfsgegenstände vom 16.12.2016 (817.023.21);

Stand 01.12.2019, 5. Abschnitt: Bedarfsgegenstände aus Kunststoff

Turkey Notification No. 2019/44 from 25.12.2019 - referring to Regulation EU No. 10/2011

World

Brazil ANVISA RDC nº 56 /2012 - lista positiva de monômeros

(Brazilian implementation of Mercosur RES 02/12) ANVISA RDC nº 326/2019 - Lista Positiva de Aditivos (Brazilian implementation of Mercosur RES 39/19)

China GB9685-2016 - National standard on the use of additives in food containers and

packaging materials

GB 4806.1-2016 - National standard on general safety requirements for materials

and articles in food contact - so far applicable to polymer resins.

GB 31603-2015 General Hygienic Standard for Production of Food Contact Materials and Articles - This material has been manufactured in accordance with the relevant requirements of good manufacturing practice for materials articles intended to come into contact with food, as described in more detail in the "Borealis AG responses to customer inquiries" on Borealis' homepage.

GB 4806.6-2016 - National standard on plastic resins for food contact use -

Appendix A - 74 Propylene homopolymer

Japan Notification No. 196 of 2020 as published on April 28, 2020 by MHLW (Japan

Ministry of Health, Labour and Welfare) - and subsequent amendments

Appendix 1, Table 1 (1) Basic polymer & Table 1(3) monomers Resin class: 6; all food types; max. temperature: III (> 100°C)

Appendix 1, Table 2 Additives

All used additives are listed and below the permitted concentration limits

Mercosur MERCOSUR/GMC/RES. Nº 02/12 - Lista positiva de monomeros

MERCOSUR/GMC/RES. Nº 39/19 - Lista positiva de aditivos



USA

FDA, CFR, Title 21, 177.1520 (a)(1)(i), (b) and (c)1.1a Olefin polymers

Limits of use (FDA)

Test samples made from this product fulfilled the extraction requirements according to FDA CFR 21 §177.1520(c), as defined for the type of polymer described above. Therefore this product may be used in contact with all food types as described in table 1 of CFR 21 §176.170(c), under conditions of use A through H as described in table 2 of CFR 21 §176.170(c) (including articles used for packing or holding food during cooking). It is the responsibility of the converter or food packer to control that the final packaging complies with the requirements of the intended and foreseeable conditions of use.

Migration limits and testing

Migration limits

The product contains traces of Aluminium, which is regulated with a specific migration limit in EU (Commission Regulation 10/2011; Article 6.3.a and Annex II), Mercosur (Res. 39/2019 Annexo 4.3.b) and Switzerland (Bedarfsgegenständeverordnung 817.023.21, Anhang 2.3.1); (1 mg/kg expressed as AI). Representative worst case tests (3% acetic acid; 4h/100°C; S/V-ratio 6) did not show any migration above 0,04 mg/kg.

Other used monomers and additives are not regulated with specific migration limits

Substances also authorised as direct food additives ("Dual use additives") are either not used for the manufacturing of this product, kind of not migrating, or only present in quantities that in case of their migration don't allow relevant contribution to exceed of the limits as set in the applicable food legislation.

Migration testing

In accordance with article 12 of Commission Regulation (EU) 10/2011, article 12 of Swiss ordinance 817.023.21 and article 2.12 of Chinese standard GB4806.1 the overall migration shall not exceed 10 mg/dm² from plastic materials and articles, with the exception for plastic materials and articles intended to contact infant or child food (60mg/kg);(Mercosur GMC Res No. 56/92 - 8 mg/dm2 and 50 mg/kg food).

A representative sample from this or a comparable material, tested for 2d at 20°C in isooctane (1 mm plate / total immersion) did not exceed the limit of 10 mg/dm² for overall migration. This test result is only valid for orientation purposes but must not be used to confirm legal compliance of the finished article.

Compliance with the overall and specific migration limits as described above must be measured from the final packaging intended to come into contact





with foodstuff by using real food or appropriate food simulants at the intended and foreseeable conditions of use as specified in Annex III of Commission Regulation (EU) 10/2011; Annex 4 of Swiss Ordinance 817.023.21; Chinese standard GB31604.8-2016; Mercosur GMC Res No. 32/2010. It is the responsibility of the converter or food packer to verify that the final packaging complies with the overall and specific migration limits as set out by the applicable legislation.

Non-intentionally added substances - NIAS

Commission Regulation (EU) 10/2011 notes that not all contaminants and reaction products of authorised monomers and additives can be listed in its Annex I. The identification of non-listed migrants may therefore not be an exclusion criterion in itself. However, a toxicological evaluation of these migrants needs to be performed.

The major fractions of NIAS in Polyolefins are the oligomers, which are unavoidably formed during polymerisation and cannot be removed. A recent joint study of polyolefin producers demonstrated that oligomers migrating from all types of polyolefins only consist of linear and branched alkanes (POSH) and alkenes (POMH), no cyclic or aromatic compounds were found. The toxicological assessment of such migrants concluded that they are sufficiently characterised by the existing overall migration limit.

Further a variety of representative Borealis products, covering the whole Borealis product spectrum, was assessed in relation to migrating NIAS by renowned test institutes. Beside oligomers the typical NIAS are reaction- and decomposition products from antioxidants, many of them known as "Arvin-substances". Another joint industry study confirmed that none of these Arvin-substances are genotoxic and can therefore be rated at least as "Cramer-class III", allowing a daily consumption of 90 µg/person/day.

However, we wish to stress that a NIAS-assessment is subject to the finished food contact article and the formation of NIAS is influenced by thermal and mechanical treatment during conversion, mixture with other substances and the applied test conditions. A raw material screening therefore can never monitor all potential criteria.

Prepared by

Borealis, Group Product Stewardship / Jürgen Emig





Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication.

The legislation cited above applies to the final packaging which is intended to come or is brought into contact with foodstuff. This statement however is restricted to the Borealis product as it leaves production. It is the customers responsibility to verify compliance with applicable legislation of the final packaging under actual and foreseeable conditions of use.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.





STATEMENT ON COMPLIANCE TO REGULATIONS ON MEDICAL USE

We confirm that this product fulfils the requirements on materials used for the manufacturing of articles or components of articles intended for medical use as described in:

Council of Europe

Material complies with the following European Pharmacopoeia monographs: Monograph 3.1.3. Polyolefins: Compliance on all other parts of the monograph with exception of the appearance of solution, absorbance and reducing substances tests.

Monograph 3.1.6. Polypropylene for containers and closures for parenteral preparations and ophthalmic preparations: Compliance to all other parts of the monograph with exception of the appearance of solution, absorbance and reducing substances tests.

Tests are made according to the current Pharmacopoeia edition at the time of the testing: 9th edition (2017), and supplement 9.8 (07/2019).

Monograph 3.2.2. Plastic containers and closures for pharmaceutical use: This monograph relates specifically to the <u>container and closure system</u> and does not contain tests that are required for compliance assessment of the raw materials used for said container and closures. The composition of the product is in compliance with this monograph.

Germany

The product follows the VDI 2017 Guideline on "Medical Grade Plastic" that covers the requirements for change management, quality management, supply security and support for regulatory requirements.

USA

Material has passed the following United States Pharmacopeia tests: Biological reactivity tests - in vitro <87>: Cytotoxicity (Elution test) Biological reactivity tests - in vivo <88>: Class VI - 70 °C

Physicochemical tests for plastics according to <661>, so far applicable to polymer pellets (with no reference to the specific surface area requirements), including heavy metals, buffering capacity and non-volatile residue test with purified water extract.

Plastic materials of construction <661.1>: Identification, physicochemical tests (<u>with exception of</u> absorbance and total organic carbon tests; please contact your Borealis or Borouge representatives for additional information), and extractable metals tests (as listed in the chapter). Plastic additive tests are done according to Borealis' internal methods.

Tests are made according to the current Pharmacopeia edition at the time of the testing (USP 37/39/42).

Additional testing

Material has been tested according to the following ISO 10993 biological tests, in the extent applicable for polymer pellets:

Cytotoxicity

Acute systemic toxicity

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BOREALIS



Skin irritation (intracutaneous reactivity)

Dermal sensitization Hemocompatibility

Tests are made according to the current ISO 10993 edition at the time of the

testing (2019).

Elemental impurities During the manufacturing process of this product, we neither use nor

intentionally incorporate any Class 1, 2A, 2B or 3 elements as listed in the

ICH Q3D Guideline on Elemental Impurities (December 2014)

DMF number Material has been assigned the FDA Drug Master File number(s):

DMF 009040

Additional information If a customer wishes to take advantage of the pre-notice period in case of

deletion or modification of Bormed grades, such pre-notice period needs to be

included in Technical Delivery Specifications.

This edition of the document supersedes any previous editions.

Borealis reserves the right to modify this document at any time, so please ensure to view it frequently. Changes to this document may be made with or without notice. Please always ensure that you are viewing the latest edition by downloading documents directly from our website at www.borealisgroup.com.

Prepared by Borealis, Group Product Stewardship / Aino Haritonova

Disclaimer

The product(s) mentioned herein are not intended for use as medical implant material or implantable medical devices and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.





STATEMENT ON CHEMICALS, REGULATIONS AND STANDARDS

We certify that during manufacturing of this product we do not use or intentionally add any of the chemicals restricted by the following regulations and standards and their subsequent amendments in amounts which exceed the applicable limits.

- Annex XVII of the REACH Regulation 1907/2006/EC Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles
- Annex XIV of the REACH Regulation 1907/2006/EC List of substances subject to authorisation
- CONEG "Toxics in Packaging" Model Legislation, rev. 2008
 Directive 94/62/EC (Packaging and packaging waste PPW) and related EN13428 and CR13695
 Sum of Cd, Cr, Hg and Pb < 100 ppm
- Directive 2000/53/EC (End of life vehicles ELV) Cr(VI), Hg and Pb < 0.1 wt%, Cd < 0.01 wt%)
- Directive 2011/65/EU (Restriction of the use of certain Hazardous Substances in electrical and electronic
 equipment ROHS) and all other ROHS legislations worldwide that restrict some or all of the following
 substances Cr(VI), Hg, Pb, PBB, PBDE, DEHP, BBP, DBP, DIBP < 0.1 wt%, Cd < 0.01 wt%
- Directive 2012/19/EU (Waste Electrical & Electronic Equipment WEEE) Annex VII No ingredients used which require selective waste treatment (As, Hg, PCB, PCT, CFC, HCFC, HFC, brominated FR)
- Proposition 65 list of Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity
 no warning labels are required for this product
- Regulation 1005/2009/EC (Substances that deplete the ozone layer)
- US Clean Air Act, Title VI, Classes I and II (EPA Final Rule; Federal Register 8136, 11.2.1993) on substances that deplete the ozone layer
- Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), repealing 850/2004/EC
- Regulation 1169/2011/EU Annex II (allergens)
- Global Automotive Declarable Substance List (GADSL) and VDA232-101
 No use of prohibited or declarable substances above threshold limits
- Swiss SR 814.018 (Verordnung über die Lenkungsabgabe auf flüchtigen organischen Verbindungen VOCV) VOC's according to Annexes 1 & 2 < 3 wt%
- Regulation 1223/2009/EC "on cosmetic products" prohibited and restricted substances
- Directive 2009/48/EC (safety of toys)
- European Standard EN 71-3:2013+A3:2018 "Safety of Toys", Part 3: "Migration of certain elements" Migration below limits for toy material category III in Table 2, and EN 71-9:2005+A1:2007 "Organic
 chemical compounds Requirements" (Tables 2 A-I).
- Japanese CSCL; Class I and II Specified Chemical Substances
- Japanese PRTR law; Class I or Class II Designated Chemical Substances

Bormed is a trademark of the Borealis group.





Regarding classification of the above product according to REGULATION (EC) No 1272/2008 and its subsequent amendments, reference is made in the SDS/PSIS for the above product.

We also certify that during the manufacturing of the above product we do not use or intentionally incorporate into it any of the following materials:

Acrylamide

Antimony, Arsenic, Beryllium, Bismuth Aromatic Amines (restricted in Regulation

1907/2006/EC, Annex XVII)

Artificial Musks

Asbestos

Azocolorants (restricted in Regulation

1907/2006/EC, Annex XVII)

Azodicarbonamide, semicarbazide

Benzophenones (e.g. 4-MBP, 4-HBP, 2,2'-

Dimethoxy-2-phenylacetophenone)

BHA or BHT

Biocides (Pesti-, Herbi-, Insecti-, Fungi-,

Bactericides)

Bisphenols and their compounds (e.g. NOGE,

BFDGE, BADGE)

Cadmium, Chromium (VI), Lead, Mercury

CFC, HCFC

CMR substances Categories 1A, 1B according to

Regulation 1272/2008/EC

Colophony (rosin)

4,4'- Diaminodiphenylmethane (MDA) Di-2-ethyl-hexyl maleate (DEHM)

Dimethylfumarate (DMF), Dibutylfumarate

1,4-Dioxane

Endocrine disruptors: Category 1 substances in the European Commission EDS database 2-Ethylhexanoic acid, Ethoxyquin, ITX, Thiurams Flame retardants (halogenated or phosphorus

based) Formaldehyde

Fragrances Furfural

Glycol ethers (e.g. EGME, EGMEA, EGEE,

EĞEEA) Glyoxal Gold, Indium, Nickel, Palladium Halogenated organic compounds

Melamine, Cyanuric acid

MOAH (mineral oil aromatic hydrocarbons) Nanomaterials (>50% of particles <100 nm)

Natural rubbers, Latex

Nitrosamines, Nitrates, Nitrites Octyl- and Nonylphenols and Octyl- or Nonylphenolethoxylates; TNPP

Organotin compounds

Parabens

PBT and vPvB substances according to EC

Regulation No.1907/2006 (REACH)

PFAS (e.g. PFOA, PFOS)

Phthalates

Plasticisers (e.g. Adipates, ESBO, Phthalates)

Polychlorinated Bi-, Terphenyls and

Naphthalenes

Polychlorinated dibenzodioxins and

dibenzofurans

Polycyclic aromatic hydrocarbons (PAH) as restricted in Regulation 1907/2006/EC, Annex

XVII

Quaternary ammonium compounds

Radioactive substances Recycled materials Silicones (polysiloxanes)

Selenium, Silver, Tellurium, Thorium

Styrene, Polystyrene

SVHC on "Candidate List of Substances of Very

High Concern for Authorisation"

Thiuram mix

Tin, Gold, Tantalum, Tungsten

UV-hardeners (e.g. ITX, Titanyl-acetylacetone) Vinylchloride, Vinylidenechloride, PVC or PVDC





The substances used in the manufacturing of the above product, and if applicable the basic polymer(s), are listed in the following chemical inventories:

Australia/AICS
Canada/DSL
China/IECSC
Europe/EINECS or ELINCS or NLP
Japan/ENCS
Korea/KECL
New Zealand/NZIoC
Philippines/PICCS
Taiwan/TCSI
USA/TSCA (all relevant ingredients designated as active)

Prepared by

Borealis, Group Product Stewardship / Barbara Lindorfer

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.





INFORMATION ON USP NON-COMPLIANCE

Bormed HF840MO has been tested to the new chapter <661.1> of USP 39 and was found not to be compliant to the absorbance and total organic carbon test requirements. These tests were not required in the chapter <661> of USP 38 to which the product had been previously tested.

Bormed HF840MO contains a slip agent as part of its functional additivation. Internal tests have shown that the water solution of Bormed HF840MO contains this slip agent and this is believed to be the reason for the non-compliance of the two tests.

Following information can be given about the slip agent:

- Not classified as hazardous according to the Regulation (EC) No. 1272/2008 (CLP)
- Listed on the 'positive additive list' of the European Pharmacopoeia and can be used in the formulation up to 0,5 wt-% in polypropylene containers
- Can be used without restrictions for food contact applications according to the EU and US food contact regulations

The significance of this non-compliance has to be determined on the final article. Borealis can support the assessment by disclosing, subject to a Secrecy Agreement, the formulation of the resin. Please contact your Borealis or Borouge representatives for assistance.

Prepared by Borealis, Group Product Stewardship / Aino Haritonova

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No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Bormed is a trademark of the Borealis group.

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FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com





STATEMENT ON ORIGIN OF RAW MATERIALS

Animal based materials and BSE/TSE

In this product we incorporate small amounts of stearates or other materials derived from fatty acids. These are derived from fat that can be of animal origin. Our polymer additive suppliers guarantee the following:

- The fat is only derived from Category 3 materials as laid down in Regulation No (EC) 1069/2009 (Animal by-Product Regulation)
- Additives are manufactured under conditions exceeding the rigorous requirements described in the Note for Guidance on minimizing the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products (EMA/410/01 rev. 3): *Transesterification or hydrolysis at not less than 200 °C for not less than 20 min under pressure.*

Further, the plastic material is exposed to temperatures above 200 °C for several minutes during the extrusion step in the plastic manufacturing process. Under the described conditions any virus, bacteria or substance causing immunological diseases (TSE; BSE, CJD) is destroyed. We therefore state that our product is to be considered safe with respect to BSE and TSE transmissions.

Genetically modified organisms (GMO)

We certify that manufacturing this product, we do not use or intentionally add into it any substances derived from genetically modified organisms.

Halal certification

This product does not have an official Halal certification.

In this product we incorporate small amounts of substances of animal origin and therefore the suitability of this product cannot be guaranteed.

Kosher certification

This product does not have an official Kosher certification.

In this product we incorporate small amounts of substances of animal origin and therefore the suitability of this product cannot be guaranteed.

Palm oil, palm kernel oil and their derivates

In this product we incorporate small amounts of stearates or other materials derived from fatty acids. These are derived from vegetable oils that can be of palm oil or palm kernel oil origin.

Prepared by

Borealis, Group Product Stewardship / Aino Haritonova

Bormed is a trademark of the Borealis group.





Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.





Gerresheimer Boleslawiec S.A ul. Boleslawa Chrobrego 15 PL - 59-700 Boleslawiec Poland

0000145632 33923988 08.10.2020

Declaration

WHITE MB PP 12455

Introduction

This declaration applies exclusively to the above-mentioned product when used as colouring or additive agent of a plastic food contact material and article. Our mixture is not intended to come directly in contact with food in its original form: therefore, since Avient has no influence on subsequent processing, this declaration cannot be extended to the finished material or article. Indeed, the compliance of the end material or article with the food contact regulations is the responsibility of the converter. He is committed to meet all relevant legal requirements and to test the migration limits according the conditions of use (temperature, time, simulants) of the article in its finished form (e.g. volume, geometry, thickness). These conditions are not part of our knowledge and therefore are not under Avient's control.

Framework Regulation (EC) No. 1935/2004 and GMP Regulation No 2023/2006

Framework Regulation (EC) No. 1935/2004 sets out the general rules that must be met by all classes of food contact materials without giving any specific rule of how to prove the safety of food contact articles: plastic materials are covered by specific measures in relation to component types used in the formulation of our mixtures:

- polymers and additives are regulated by Regulation (EU) No 10/2011 and its amendments.
- colourants (including dyes, organic and inorganic pigments) must not migrate and must also comply with the purity requirements laid down in the national laws of Member States. General requirements for colourants are listed in the EU Resolution of the Council of Europe, AP (89) 1 though this is not legally binding.
- catalysts, solvents and polymer production aids (not yet listed at EU level) shall be assessed with general rules of the Framework Regulation by the substance manufacturer and/or shall comply with the national legislations provisions.

The product is not expected to cause any contravention to the Framework Regulation since the subsequent stages of manufacture, processing and distribution of the end article are in line with the Good Manufacturing Practices (GMP) applicable to food contact materials and article's supply chain, as listed in Regulation (EC) No 2023/2006. In addition, we would declare that our own production process, as a part of this supply chain will conform to the provisions of GMP.

Hereafter the status of the different component types is given according to their applicable legislation and based on the declarations received by Avient from starting materials suppliers:

Commission Regulation (EU) No 10/2011 and its amendments

All the carriers and the intentionally added additives comply with the requirements of Regulation (EU) No 10/2011 and its amendments published before the release date of this certificate. We would like to remind you that the assessment of overall migration limit, other release restrictions such as those found in Annex II (the release of aromatic amines in a detectable quantity and the specific migration limits for all metals, especially considering low migration limits established) is the responsibility of the producer of the finished article



(converter).

Restrictions and Limitations

- Aluminium: SML = 1 mg/kg food or food simulant
- N,N-Bis(2-hydroxyethyl)alkyl(C8 C18) amine : SML(T) = 1.2 mg/Kg expressed as tertiary amine, see note (7) Annex I / Table 2.

Additional information

Please note, that some SMLs concern additives present in the above mentioned preparation.

Please note, that the following dual-use-additives are contained:

FCM number / name of the additive / content of the additive (given in range)

610	Titanium dioxide	40 - 60 %	
575	Polydimethylsiloxane	0,1 - 0,25 %	
	(Mw > 6800 Da)		
9	Acids, C2-C24,	not available	
	aliphatic, linear,		
	monocarboxylic,		
	synthetic and their		
	mono-, di- and		
	triglycerol esters		
116	Benzoic acid & salts	not available	
504	Silicon dioxide	0,5 - 1 %	
SML	Specific Migration Limit	SML(T)	Specific Migration Limit expressed as Total
DL/LR/NG	Detection Limit	FP/PF/BG	Finished Product or Article

European Resolution AP (89) 1

All the colourants used meet the requirements established in European Resolution AP(89) 1 in regard to the maximum permissible levels of heavy metals, primary aromatic amines, sulphonated aromatic amines and polychlorinated biphenyls.

Belgium: Arrêté Royal from 11.05.1992 of the Moniteur Belge 24.07.1992

All the colourants used meet the purity requirements listed in the Arrêté Royal from 11.05.1992 of the Moniteur Belge 24.07.1992 and its amendments.

France: Jorf

All the colorants fulfil the applicable requirements and restrictions for food contact applications.

Germany: BfR Recommendation IX

There are no objections to the use of the colourants in this product according to the Recommendation IX of the BfR (Federal Institute for Risk Assessment).

Italy: Decreto Ministeriale

All the colourants used, meet the purity requirements listed in the Decreto Ministeriale of 21.03.1973 and its amendments.

The Netherlands: Warenwet

All the colourants used meet the purity requirements listed in the Dutch regulation Warenwet and its amendments.



Spain: Real Decreto 847/2011 (subsecretaria para Sanidad)

All the colourants used meet the purity requirements listed in Annex II of Real Decreto 847/2011 (subsecretaria para Sanidad) and its amendments.

Turkey: Food Codex Regulation

All the components used meet the requirements of Turkish Food Codex Regulation on Materials and Articles in Contact with Foodstuffs issued in April 5th, 2018 and its amendments.

We would also like to inform you of the status of our product in regard to the Directive 94/62/EC, CONEG (Regulation status and the content of diarylide pigments):

Directive 94/62/EC, CONEG and Heavy Metals

Heavy metals and/or their compounds are not intentionally added by us during production and, on the base of our present knowledge, they are not contained (or are present just as impurity at trace-level) in raw materials which are used for the production of above-mentioned product. In any case, our company does not carry out any specific analysis in order to detect the presence of above mentioned substances and then this statement is based on specific information provided by our raw material suppliers. The product meets the requirements of the EC Directive 94/62/EEC and the CONEG regulation which limits the content of heavy metals up to 100 ppm (Cd, Pb, Hg, Cr(VI)).

Diarylide Pigments

The product does not contain any intentionally added diarylide pigment in its chemical composition.

Clariant Plastics & Coatings (Polska) Sp. z o.o.

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Avient makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Avient's products for its particular application. Nothing included in this information waives any of Avient's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Safety Data Sheets providing safety precautions, that should be observed when handling or storing Avient products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Safety Data Sheet information before handling any of these products. For additional information, please contact Avient.

* For sales to customers located within the United States and Canada the following applies in addition:

NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.
9/2010



Gerresheimer Boleslawiec S.A ul. Boleslawa Chrobrego 15 PL - 59-700 Boleslawiec Poland

0000145632 33923989 Version: 1 - 5 08.10.2020

Declaration

WHITE MB PP 12455

Material number: PC02175008

Introduction

This document is intended to provide information on the current status of the above-referenced material under certain regulatory programs. Please review this document carefully and contact your Avient representative if you have any questions.

All statements refer exclusively to the named product in its current formulation: they are based on the present state of our knowledge and experience and concern the product in its original form and packaging as supplied from our factory.

Since the masterbatch and compound manufacturer has no influence on subsequent processing, the processor himself is responsible for ensuring that the finished article is suitable for the intended use, and is also responsible for ascertaining the compliance of the end article with the national and international regulations and laws concerning its application field. Due to the broad range of possible applications we make no warranty that the actual use of the product in the finished article is comprised by the information below.

Hereafter the status of the different component types is given according to their applicable legislation and based on the declarations received by Avient from starting materials suppliers:

USA Food and Drug Administration

In the USA substances used as a component of articles intended to come into contact with food are regulated by Food and Drug Administration FDA 21 CFR Title 21. Specific limitations and conditions of use, as set forth in these regulations, are specified below.

The components entering into the formulation of the above-referenced product are approved under one or more of the specific FDA paragraphs or have other clearances listed below:

1. Colorants listed in 21 CFR 178.3297 "Colorants for Polymers."



- 2. Components that are exempt from regulation under 21 CFR 170.39, "Threshold of Regulation for Substances Used in Food Contact Articles."
- 3. Polymers and/or additives listed in the appropriate parts of 21 CFR (174, 175, 176, 177, 178, 181, 182, 184 and 186).
- 4. Substances that, based upon legal opinion, supplier certification, and/or extraction results from food-simulating solvents, are not food additives and are acceptable for food contact applications in full compliance with the Federal Food, Drug and Cosmetic Act and all applicable food additive regulations.
- 5. Substances that are GRAS (Generally Recognized as Safe) for direct addition to food or for use in contact with food.
- 6. Substances that are "Prior Sanctioned" for use in this application.
- 7. Substances that are the subject of applicable Food Contact Substance Notifications.

Condition of Use and Restriction:

No further regulatory restraints, food type limitations or restrictions of conditions of use (as listed from A through H into title 21 CFR, §176.170(c), table 2) apply to this material. Material may not be used at levels greater than that required to achieve the desired intended technical effect in the food contact article.

Directive 94/62/EC and CONEG

Based on the knowledge of the raw materials as well as of the manufacturing process this product meets the requirements of the Directive 94/62/EC and the CONEG regulation which limits the content of heavy metals up to 100 ppm (Cd, Pb, Hg, Cr(VI)).

Diarvlide Pigments

The product does not contain any intentionally added diarylide pigment in its chemical composition.

Clariant Plastics & Coatings (Polska) Sp. z o.o.

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Avient makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Avient's products for its particular application. Nothing included in this information waives any of Avient's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Safety Data Sheets providing safety precautions, that should be observed when handling or storing Avient products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Safety Data Sheet information before handling any of these products. For additional information, please contact Avient.

* For sales to customers located within the United States and Canada the following applies in addition:

NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY,



FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. $9 \slash\! / \! 2010$



Katarzyna Jawor Gerresheimer Boleslawiec S.A

PL -Poland

31448918 06.02.2019

Declaration

WHITE MB PP 12455

Introduction

All statements refer exclusively to the named product in its current formulation: they are based on the present state of our knowledge and experience and concern the product in its original form and packaging as supplied from our factory.

Since the masterbatch and compound manufacturer has no influence on subsequent processing, the processor himself is responsible for ensuring that the finished article is suitable for the intended use, and is also responsible for ascertaining the compliance of the end article with the national and international regulations and laws concerning its application field.

Additional information

• Based on the current formulation of the above mentioned product, we inform you that its formulation contains:

Traces of phthalates

• Based on the current formulation of the above mentioned product, the following substances have not been intentionally added during its production:

Bisphenol A, Latex, Melamine, Allergens

These substances were not used as starting materials during the mixing phase of our product but, on the basis of our current knowledge, we cannot give you any warranty they are not constitutionally contained (or are present at level of ubiquitous(**) traces) in raw materials. Please note that, in any case our Company does not carry out any specific analysis in order to detect the presence of above mentioned substances.

(**)Ubiquitous in regard to a chemical substance means that this substance is omnipresent (occurs literally everywhere) and its occurrence in this "ubiquitous" traces cannot be avoided by any technical, physical or chemical measure.

Additional information

In addition be informed that, in case here above was not clearly mentioned, you can find the following information into the Safety Data Sheet you already got by us:

the ingredients that may be classified as dangerous for health and environment;



 information on restriction on use that we are aware of and that could be relevant for plastic applications.

Clariant Plastics & Coatings (Nordic) AB

Country Product Stewardship

This declaration was produced automatically and therefore does not have an original signature

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY,
SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY
PRODUCT OR SERVICE.
9/2010



Anna Wisniewska Gerresheimer Boleslawiec S.A.

PL -Poland

32359304 24.09.2019

Declaration

WHITE MB PP 12455

Introduction

All statements refer exclusively to the named product in its current formulation: they are based on the present state of our knowledge and experience and concern the product in its original form and packaging as supplied from our factory.

Since the masterbatch and compound manufacturer has no influence on subsequent processing, the processor himself is responsible for ensuring that the finished article is suitable for the intended use, and is also responsible for ascertaining the compliance of the end article with the national and international regulations and laws concerning its application field.

Additional information

• Based on the current formulation of the above mentioned product, we inform you that its formulation contains:

Traces of Phthalates, < 15 ppm

Additional information

In addition be informed that, in case here above was not clearly mentioned, you can find the following information into the Safety Data Sheet you already got by us:

- the ingredients that may be classified as dangerous for health and environment;
- information on restriction on use that we are aware of and that could be relevant for plastic applications.

Clariant Plastics & Coatings (Nordic) AB

Country Product Stewardship

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or



implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY
PRODUCT OR SERVICE.
9/2010

Clariant Plastics & Coatings



05.02.2019

Declaration

WHITE MB PP 12455 (PC02175008)

Introduction

All statements refer exclusively to the named product and its current formulation as supplied from our factory in its original form and packaging and are based on the present state of our knowledge and experience.

Since the masterbatch manufacturer has no influence on subsequent processing, the processor himself is responsible for ensuring that the finished article is suitable for the intended use and to ascertain the compliance of the end article with the national and international regulations and laws concerning its application field.

BSE/TSE:

Based on the knowledge of the raw materials as well as of the manufacturing process, we are able to confirm that the product does not contain intentionally added components of animal origin. They are not used by us during production and, on the base of our present knowledge, are not contained (or are present just as impurities at trace-level) in raw materials which are used for the production of our preparations; please note that in any case, our Company does not carry-out any specific analyses in order to detect the presence of the a.m. substances.

Clariant Plastics & Coatings (Nordic) AB

Box 9053 SE-200 39 Malmö

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E-mail: psmalmo@clariant.com
Web: www.clariant.com



Clariant Plastics & Coatings



Additional Information

The information given in the present declaration is based on the current level of our knowledge, and is intended to provide information about our products. It should therefore not be construed as guaranteeing specific properties. Buyer or user are responsible for ensuring that the products they use, as supplied by us, comply with the specific requirements of their intended application.

Due to the progress (evolution) of national and international regulations and laws the status of the above mentioned product could eventually change. If you have any doubt relating to the current correctness of this declaration, please contact us for an update.

Clariant Plastics & Coatings (Nordic) AB

Tine Tornqvist Tosun Product Stewardship

This declaration was produced automatically, and therefore does not have an original signature

Clariant Plastics & Coatings (Nordic) AB

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Katarzyna Jawor Gerresheimer Boleslawiec S.A

PL -Poland

31489294 15.02.2019

Declaration

WHITE MB PP 12455

Introduction

All statements refer exclusively to the named product in its current formulation: they are based on the present state of our knowledge and experience and concern the product in its original form and packaging as supplied from our factory.

Since the masterbatch and compound manufacturer has no influence on subsequent processing, the processor himself is responsible for ensuring that the finished article is suitable for the intended use, and is also responsible for ascertaining the compliance of the end article with the national and international regulations and laws concerning its application field.

Additional information

• Based on the current formulation of the above mentioned product, the following substances have not been intentionally added during its production:

Any of the substances mentioned in ICH Q3D Guideline for Elemental Impurities

These substances were not used as starting materials during the mixing phase of our product but, on the basis of our current knowledge, we cannot give you any warranty they are not constitutionally contained (or are present at level of ubiquitous(**) traces) in raw materials. Please note that, in any case our Company does not carry out any specific analysis in order to detect the presence of above mentioned substances.

(**)Ubiquitous in regard to a chemical substance means that this substance is omnipresent (occurs literally everywhere) and its occurrence in this "ubiquitous" traces cannot be avoided by any technical, physical or chemical measure.

Additional information

In addition be informed that, in case here above was not clearly mentioned, you can find the following information into the Safety Data Sheet you already got by us:

- the ingredients that may be classified as dangerous for health and environment;
- information on restriction on use that we are aware of and that could be relevant for plastic applications.



Clariant Plastics & Coatings (Nordic) AB

Country Product Stewardship

This declaration was produced automatically and therefore does not have an original signature

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

* For sales to customers located within the United States and Canada the following applies in addition:
NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY,
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PRODUCT OR SERVICE.
9/2010



Katarzyna Jawor Gerresheimer Boleslawiec S.A

PL -Poland

32547352 07.11.2019

Declaration

WHITE MB PP 12455

Introduction

All statements refer exclusively to the named product in its current formulation: they are based on the present state of our knowledge and experience and concern the product in its original form and packaging as supplied from our factory.

Since the masterbatch and compound manufacturer has no influence on subsequent processing, the processor himself is responsible for ensuring that the finished article is suitable for the intended use, and is also responsible for ascertaining the compliance of the end article with the national and international regulations and laws concerning its application field.

Additional information

• Based on the current formulation of the above mentioned product, the following substances have not been intentionally added during its production:

Nitrosamines

These substances were not used as starting materials during the mixing phase of our product but, on the basis of our current knowledge, we cannot give you any warranty they are not constitutionally contained (or are present at level of ubiquitous(**) traces) in raw materials. Please note that, in any case our Company does not carry out any specific analysis in order to detect the presence of above mentioned substances.

(**)Ubiquitous in regard to a chemical substance means that this substance is omnipresent (occurs literally everywhere) and its occurrence in this "ubiquitous" traces cannot be avoided by any technical, physical or chemical measure.

Additional information

In addition be informed that, in case here above was not clearly mentioned, you can find the following information into the Safety Data Sheet you already got by us:

- the ingredients that may be classified as dangerous for health and environment;
- information on restriction on use that we are aware of and that could be relevant for plastic applications.



Clariant Plastics & Coatings (Nordic) AB

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Declaration of Conformity

070-VO-307_E V01 14.10.2020

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Name: Safe-Gard plus™ 205/N

Selig Article-No.: GZK

We hereby confirm that the above mentioned product fulfils the requirements of the EU common and national regulations in the appropriate current version for direct or indirect contact with food. In particular this is valid for the following regulations:

- 1.) EU-Regulation $\underline{1935/2004}$ regarding materials that are intended to be in contact with food
- 2.) EU-Regulation 10/2011 and all amendments, including EU Regulation 321/2011 of 1th April 2011, EU Regulation 1282/2011 of 28th November 2011, EU Regulation 1183/2012 of 30th November 2012, EU Regulation 202/2014 of 3rd March 2014, EU Regulation 865/2014 of 8th August 2014, EU Regulation 2015/174 of 5th February 2015, EU Regulation 2016/1416 of 24th August 2016, EU Regulation 2017/752 of 28th April 2017, EU Regulation 2018/79 of 18th January 2018, EU Regulation 2018/213 of 12th February 2018, EU Regulation 2018/831 of 5th June 2018, EU Regulation 2019/37 of 10th January 2019, EU Regulation 2019/1338 of 8th August 2019, EU Regulation 2020/1245 of 2rd September 2020
- 3.) BfR-Recommendations XXXVI, XIV, XVII, XXVI, XXXV
- 4.) Foodstuffs Act (LFGB) §30 and § 31
- 5.) FDA-Paragraphs CFR 21 § 177.1630, §174.5, § 177.1340, §175.105, § 178.3910, §178, § 176.180, §177.1330
- 6.) EU-Packaging guidelines <u>94/62/EC</u>, especially, article 11 (heavy metal content) and addendum <u>2004/12/EC</u>
- 7.) CH-Regulation on materials <u>SR 817.0</u>, <u>SR 817.02</u> und <u>SR 817.023.21</u> (State: 1st December 2019)
- 8.) EU-Regulation 2023/2006 on good manufacturing practice for materials with food contact
- 9.) <u>The Commodities Regulation:</u> Revised version of 23th December 1997 (State: 15th February 2016)
- 10.) CEPE/EuPIA
- 11.) Use of aluminum according to DIN EN 602, EN 573 und ASTM B479



Declaration of Conformity

070-VO-307_E V01 14.10.2020

Seite 2 von 7

According to the statement of our suppliers, the above named product contains the following substances, which have the specific migration limits (SML), and do not exceed the threshold value. This information is to be treated as confidential and may not be passed on to third parties:

Table 1: SML list

Cubatanas	DM D C N		2 22
Substance	PM Ref-No.	CAS-No.	Specific migration limit (SML)
Diphenylmethane-4,4'- diisocyanate	16630	101-68-8	QMT = 1 mg/kg NCO
Adipic acid, bis(2-ethylhexyl) ester	31920	103-23-1	SML = 18 mg/kg
Octadecyl 3-(3,5-di-tert- butyl-4-	68320	2082-79-3	SML = 6 mg/kg
hydroxyphenyl)propionate			
Diethyleneglycol	13326/15760/476	111-46-6	SML = 30 mg/kg
Acrylic acid	10690	79-10-7	SML = 6 mg/kg
Benzisothiazolinone (BIT)	37520	2634-33-5	SML = 0.5 mg/kg
Ethyleneglycol	16990/53650	107-21-1	SML = 30 mg/kg
Terephthalic acid	24910	100-21-0	SML = 7.5 mg/kg
Antimony trioxide	35760	1309-64-4	SML = 0.04 mg/kg
Acetic acid, manganese salt	-	2180-18-9	SML = 0.6 mg/kg
2-Methyl-4-isothiazolin-3-one	66755	2682-20-4	SML = 0.5 mg/kg
Isophthalic acid	19150	121-91-5	SML = 5 mg/kg
Waxes, refined, derived from petroleum based or synthetic hydrocarbon feedstocks, high viscosity (E905)	95859	8002-74-2	-
Acetaldehyde	10060	75-07-0	SML = 6 mg/kg
Zinc oxide	96240	1314-13-2	SML = 5 mg/kg
Methacrylic acid	20020	79-41-4	SML = 6 mg/kg
Silicon dioxide (E551)	86240	7631-86-9	SML = 60 mg/kg
Zinc acetate (E650)	-	557-34-6	SML = 5 mg/kg
Petroleum hydrocarbon resins (hydrogenated)	72081/10	-	SML = 5 mg/kg
Phosphoric acid (E338)	23170/72640	7664-38-2	-
1,6-Hexanediol	18700	629-11-8	SML = 0.05 mg/kg
2,5-Bis(5-tert-butyl-2- benzoxazo- lyl)thiophene	38560	7128-64-5	SML = 0.6 mg/kg
1,2-Propanediol (E1520)	23740/81840	57-55-6	-



Declaration of Conformity

070-VO-307_E V01 14.10.2020

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Adipic acid 2-Bromo-2-nitropropane-1,3-

diol

Tin(II)chloride (E512)

12130/31730

124-04-9

SML = 60 mg/kg< 0.003 mg/m2

52-51-7

-7 < 0.00 im Dis

7772-99-8

11



Declaration of Conformity

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Declaration concerning Dual Use:

The following dual-use chemicals are being used: **E338**, **E512**, **E551**, **E650**, **E905** and **E1520**

Specification for the intended use or restrictions:

Table 2: Type / types of foods to come into contact with the material

Type of food	Principle suitable	Suitability approved by overall migration ¹
Aqueous	X	
Acidic	X	Χ
Alcoholic	X	x
Fatty	X	^
Dry	X	

Duration and temperature of treatment and storage in contact with the food:

Long time storage (> 6 months) at room temperature or below.

Please consider that this validity applies only to migration and legislative compliance and not to technical fit-for-use. The (technical) expiry date is designated in the corresponding technical data sheet (TDS).

Ratio of food contact surface area to volume, with which the compliance of the material or article was determined: $6 \text{ dm}^2/\text{kg}$

Declaration on active and intelligent contact materials:

The product contains no components of an active or intelligent packaging, as defined in Regulation $\underline{1935/2004/EC}$, resp. in VO $\underline{450/2009/EC}$.

Statement Reg. <u>1935/2004/EC</u> (framework regulation), traceability and marking:

We confirm compliance with the GMP regulation in accordance with VO 1935/2004/EC. The demands required by these regulations for film and packaging manufactures in particular traceability and marking of products is fulfilled by us.

Declaration concerning regulation (EU) No. 2023/2006 (GMP):

The demands required by these regulations for film and packaging manufactures, in particular the existence of a quality assurance system, a quality control system and sufficient documentation of the production are met by us. Our quality system includes the necessary processes which guaranteed the microbiological purity and pest control. The Selig UK Ltd. and Selig Switzerland Ltd. is certified ISO9001 and BRC.

Declaration concerning regulation (EC) No. 1907/2006 (REACH):

The product contains no chemicals of "Candidate List of Substances of Very High Concern for authorization" (SVHC) of ECHA (EC 1907 2006 (REACH)), version of 25th June 2020.

Recycled plastics declaration (EU Directive 282/2008/EC):

With regard to the EU Directive 282/2008/EC the product contains no recycled plastics.

Declaration of genetically modified organisms (GMOs):

Genetically Modified Organisms (GMOs) are not intentionally added during the production. GMO contamination during production is not possible.

¹ The suitability will be tested according to the requirements of Regulation (EU) No. 10.2011, Appendix III and IV, Point 4.



Declaration of Conformity

070-VO-307_E V01 14.10.2020

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Declaration concerning allergens (EU Directive $\underline{2000/13}$ and following $(\underline{2003/89/EC})$):

The product contains no allergens according to Annex IIIa of the EU Directive 2003/89/EC.

Declaration of synthetic nano materials:

The product is not produced with the help of nano technology and do not contain nanoscale particles.

Declaration on phenols:

Phenols are not intentionally added, as long as not explicitly mentioned in the SML list (Table 1).

Declaration Epoxy derivatives:

Selig Switzerland Ltd confirms that the product is in compliance with the requirements of Articles 2, 3 and 4 of Regulation (EC) No. <u>1895/2005</u> on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food.

Declaration on Bisphenol A (BPA):

Bisphenol A (BPA) is not intentionally added to this product.

Primary aromatic amines (PAAs) from aromatic isocyanates:

The used adhesive is based on aromatic isocyanates. The fully cured adhesive is compliant with annex II, point 2 of the Regulation (EC) No. 10/2011, that the content of primary aromatic amines in the foodstuff is below of the detection limit of 0.01 mg/(kg food) (expressed as aniline).

MIGRATIONS:

Overall migration test report [BA 16199, 2014L53301]:

The test conditions for overall migration were selected according to the requirements of Regulation (EU) No 10/2011.

The migration was carried out according to EN 1186 in an external laboratory.

The results are given under Table 3.

Table 3: Results from the overall migration

Simulant	Test conditions	Overall migration value
A (10 % ethanol v/v)	10 d / 60 °C	< 1.0 mg/dm ²
B (3 % acetic acid w/w)	10 d / 60 °C	2 mg/dm ²



Declaration of Conformity

070-VO-307_E V01 14.10.2020

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NIAS-ASSESSMENT: ppb screening: 2016L49102

Table 4: Results from NIAS

Simulant	Test conditions	Comment
D2* (95 % ethanol v/v)	10 d / 60 °C	Sat. hydrocarbons: Compliant for S/V = 6 dm²/kg. Aliphatic saturated and unsaturated hydrocarbons (except 1-hexene, 1- octene, 1-decene, 1- dodecene, 1-tetradecene) are not listed/regulated in the Plastic Regulation (EU) No. 10/2011 and Swiss Regulation SR 817.023.21. The origin of the sat. hydrocarbons is the wax, which only uses refined waxes (microcrystalline, PM Ref. No. 95859, E905). These is covered by the overall migration.



Declaration of Conformity

070-VO-307_E V01 14.10.2020

Seite 7 von 7

Period of validity:

The food declaration of conformity is valid for 3 years or until revoked.

This declaration of conformity contains the food regulatory information according to European and Swiss law, as per our present state of knowledge.

The suitability of our product needs to be evaluated in each case by processing and storage tests by the customer. The validity of the statements made hereby implies that our product is processed appropriately. Since we have no influence on the use of our product at the customer, we cannot assume any expressed or implied warranty or other liability in connection with the use of the information contained in this document.

Date / Signature: 27. Oct. 2020

Steve Lee

Regulatory Affairs Leader and R&D Assistant

Selig UK Ltd. 635-637 Ajax Avenue, Slough Trading Estate Berkshire SL1 4BH United Kingdom



Niederglatt, 3-Sep-19

Statement on Cosmetic Regulation (EC) No. 1223/2009

Dear Customer,

For the assessment of packaging materials in contact with cosmetic products, the Regulation (EC) No. 1223/2009 can be employed.

We expressly point out, that the Regulation 1223/2009 does not define compositional requirements for packaging materials. However, it requires that specific restrictions for nano materials and CMR-Substances (CMRs-Annex II) are fulfilled and that all components are compliant with the REACH Regulation 1907/2006/EC.

We hereby confirm that the products manufactured from Selig Switzerland Ltd. and/or Selig UK Ltd. are free from nano materials and compliant with the REACH Regulation 1907/2006/EC. The compositional requirements of the Regulation (EC) No. 1223/2009 are thus fulfilled.

Best regards, Selig Switzerland Ltd.

Hubeli Dominique Laboratory & Quality Assurance Leader

Corporate Headquarters and Manufacturing: Selig Sealing Products, Inc. 342 East Wabash Avenue Forrest, IL 61741 United States of America

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+41 (44) 851 50 50

All Manufacturing Locations ISO 9001:2008 Certified



Gerresheimer Boleslawiec S.A. Boleslawa Chrobrego 15 59-700 Boleslawiec Poland

Niederglatt, 3-Sep-19

Statement on Allergens - Safe-Gard™ plus SG+205N

Dear Customer,

We hereby confirm that the Safe-Gard™ plus SG+205/N manufactured and delivered by Selig Switzerland Ltd. and/or Selig UK Ltd. to Gerresheimer Boleslaviec S.A. contains no allergens according to Annex IIIa of the EU Directive 2003/89/EC.

Best regards, Selig Switzerland Ltd.

Dominique Hubeli Laboratory & Quality Assurance Leader

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All Manufacturing Locations ISO 9001:2008 Certified



Gerresheimer Boleslawiec S.A. Mrs. Katarzyna Jawor Boleslawa Chrobrego 15 59-700 Boleslawiec POLAND

Niederglatt, 3-Sep-19

SG+205/N - Absence of Substances

Dear Mrs. Jawor,

We hereby confirm, that the product Safe-Gard™ plus SG+205/N manufactured and delivered by Selig Switzerland Ltd. and/or Selig UK Ltd. do not deliberately add the following substances:

- Melamine
- Latex
- **Phthalates**

Furthermore and to the best of our knowledge, our raw material suppliers do not intentionally add these substances too.

Best regards, Selig Switzerland Ltd.

Dominique Hubeli Laboratory & Quality Assurance Leader

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Niederglatt, 3-Dec-19

General Statement on BSE/TSE

Dear Customer,

We hereby confirm that all products manufactured and delivered by Selig Switzerland Ltd. and/or Selig UK Ltd. comply with the BSE/TSE EU Regulation EMA/410/01.

Best regards, Selig Switzerland Ltd.

Dominique Hubeli Laboratory & Quality Assurance Leader

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info@seliggroup.com : www.seliggroup.com

Niederglatt, 14.11.2019

Statement on Nitrosamines

Dear Customer

We hereby confirm that all Safe GardTM plus 205/N which is manufactured in Selig Switerzland Ltd and Selig UK Ltd does not intentionally add or useNitrosamines in the manufacturing process.

To the best of our knowledge all the raw materials used in the manufacture of Safe Gard $^{\text{TM}}$ plus 205/N do not contain Nitrosamines.

Kind regards
Selig Switzerland Ltd

Domingiue Hubeli

Laboratory & Quality Assurance Leader

Test report

Report No 829168/12 - rev. 1



DANISH TECHNOLOGICAL

INSTITUTE

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17 January 2019 Page 1 of 2 KKJ/HEAL

Client: Gerresheimer Vaerloese

Walgerholm 2-8 3500 Vaerloese Denmark

Subject: Closure: Duma OneLiner, 38290L-3000

Container: Duma Twist-Off 125 ml, 045125-3000

Sampling: Date of receipt: 12 September 2018

Test Period: 12 September 2018 – 26 September 2018

Test

requirements: Classification: Moisture Vapour Transmission – see page two for description

Test

performed by: Test responsible Karina Kjeldgaard-Nielsen, Product Manager

Results: mg water vapour per day per litre container-volume:

| No |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
| 2.5 | 2.6 | 2.4 | 2.4 | 2.6 | 2.2 | 2.3 | 2.0 | 2.4 | 2.2 |

Average: 2.4 mg/d/l

Conclusion

The tested containers comply with the classification of USP 41 <671> test for

polyethylene - see specification page 2.

Remarks: Req. no. 12919

Revised 17 January 2019 - replaces report dated 3 October 2018

Terms: The test has been performed according to the conditions laid down by the general terms and

conditions of The Danish Technological Institute. The test results apply to the tested products only. This test report may be reproduced in extract only if the Laboratory has approved the

extract in writing.

Test place: Technological Institute, Taastrup, Plastics and Packaging Technology

Signature:

Karina Kjeldgaard-Nielsen,

Product manager Phone: +45 7220 1752 kkj@teknologisk.dk

Test responsible, signatory

Helle Allermann, Senior Consultant Phone: +45 7220 3163 heal@teknologisk.dk

Co-reader



Report No. 829168/12 - rev. 1 Page 2 of 2

Description test subjects:

Container

Type: Duma Twist-Off 125 ml

Number: 045125-3000 Raw material: GF4760 (PE-HD)

Colour: White, PL00075542-ZT (PE)

Cavity: 13-16 (mould 1)

<u>Closure</u>

Type: Duma OneLiner
Number: 38290L-3000
Raw material: HF840MO (PP)
Colour: White, PP 12455
Cavity: 1-8 (mould 1)

Method: Packaging System Classification for Multiple-Unit Containers for Solid Oral Dosage Forms. This classification is specified for containers (polyethylene or polypropylene containers) with impervious seals obtained by heat-sealing the bottle with an aluminum foil-polyethylene laminate or other suitable seal.

Classification of Moisture Vapour Transmission:

10 specimens of containers and closures have been tested according to USP 41 <671>.

High-density polyethylene containers meet the requirements if the moisture vapor transmission exceeds $10 \, \text{mg/day/L}$ in NMT $1 \, \text{of}$ the $10 \, \text{test}$ containers and exceeds $25 \, \text{mg/day/L}$ in none of them.

Child-Resistant and suitable for senior adults

Gerresheimer Vaerloese A/S Walgerholm 2-8 3500 Værløse, Denmark

Duma OneLiner 3829OL

ISO 8317 (2003)

The IVM Institut VerpackungsMarktforschung GmbH confirms that the Duma OneLiner 3829OL (3829OL-3000) on Duma Twist-Off Container 35 ml - 600 ml incl. Duma Twist-Off Q Container range is certified according to ISO 8317 (2003). The package obtained the confirmation of conformity after a formal test procedure according to ISO 8317 (2003).

The package is also in compliance with ISO 8317 (2015) as no modifications have been made to the packages since they were tested against ISO 8317 (2003).

C.F.R. Title 16, Part 1700

Results of a study performed by Perritt Laboratories in USA demonstrate that the Duma OneLiner 3829OL (3829OL-3000) on a Duma Twist-Off 250 ml (045256-3000) and a Duma Twist-Off Q 75 ml (Q45075-3000) fulfills the standard for senior-resecuring effectiveness according to current C.F.R. Title 16, Part 1700, which include senior adult use effectiveness (SAUE) and children attempting to open the senior closed systems.

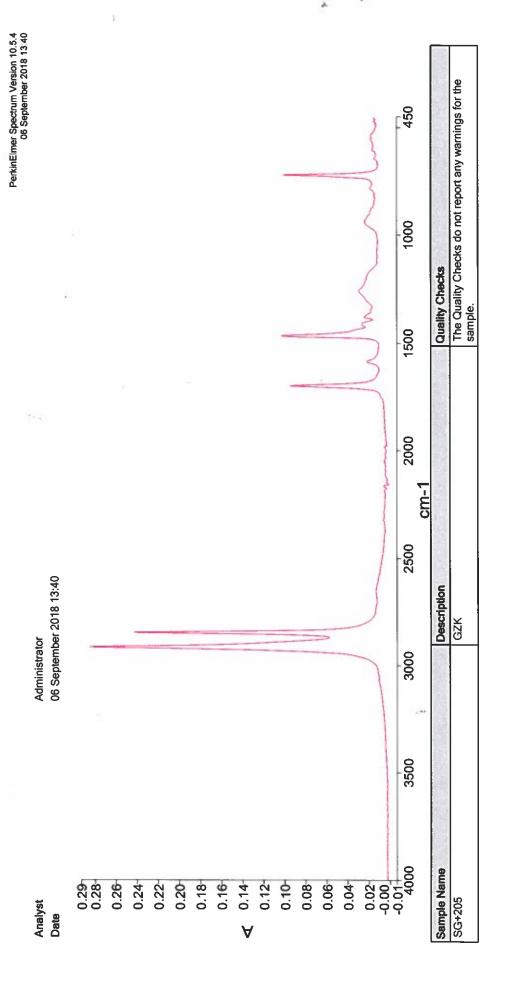
In the course of this study 100 seniors (50-70 year-olds) were employed. An additional 100 children (42-51 months of age) were employed to test the packages that the seniors reclosed. This study does not include a 50-child sequential test panel for child-resistant effectiveness, though their inclusion is stipulated in the regulation.

The other containers in the Duma Twist-Off range which can be used together with the Duma OneLiner 3829OL (3829OL-3000) have not been tested according to C.F.R. Title 16, Part 1700 - however they are identical with regard to dimensions on the neck and thread.

It is the responsibility of the customer of the packaging system to evaluate/conclude if further testing is required. Test reports can be provided upon request.

Værløse, February 19th, 2019

Christina D. Holder Quality Manager





TEST Reg. no. 127

1 August 2016 ten-decr

7

DANISH TECHNOLOGICAL INSTITUTE

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Rep. no.: 139/16-3

Page: 1 of 2 No. of encl.: 1 Cosign: /ex

Test report

Customer

Gerresheimer Vaerloese A/S Walgerholm 2-8 DK-3500 Vaerloese

Test

Thermal analysis

Sample

Raw material sent to our laboratory on 22 June 2016 bearing the following ID

DSC sample no. 3

Raw material: HF840MO (PP) Batch no.: B1-60075

DSC sample no. 4

Raw material: PPH 10012 (PP)

Batch no.: 630272

DSC sample no. 5

Raw material: PPC 10712 (PP)

Batch no.: 630158

Test method

The DSC (thermal analysis) is based on

USP 39 <661> Containers - Plastics / Physical Tests, which refers to USP 39 <891> Thermal Analysis

One spot sample (approx. 12 mg) was taken from the raw material. The following conditions were used for the comparative DSC analysis:

Heating 25 °C to +200 °C at 10 °C/min in nitrogen (80 ml/min)

Hold the temperature for 10 min at 200 °C

Cooling 200 °C to 110 °C at 10°C/min in nitrogen (80 ml/min)

The peak values of the Onset temperature are compared.

Test equipment

32T07.02	Calorimeter, Differential Scanning Calorimetry, DSC 823e from Mettler-Toledo
32T14.60	Analytical balance XS 105 from Mettler-Toledo
32T07.03	Reference sample of polypropylene from USP (Rockville)
Purge gas	Nitrogen (purity grading: 5) from Aga

Test results

Sample -	Melting Peak	Onset	Difference between values
	°C	°C	(Onset temperature) °C
Ref sample of polypropylene	166.0	153.7	-
DSC sample no. 3	168.5	154.8	1.1
Raw material: HF840MO (PP)			
Batch no.: B1-60075			
DSC sample no. 4	168.0	153.7	0
Raw material: PPH 10012 (PP)			
Batch no.: 630272			
DSC sample no. 5	169.1	154.8	1.1
Raw material: PPC 10712 (PP)			
Batch no.: 630158			

Acceptance criteria: Difference between values (Onset temperature) ≤ 12.0 °C

Test result: Pass

Yours sincerely

Centre for Plastics Technology

Tina Elmer Nielsen Laboratory Technician

Two Or Rice

Phone: +45 72 20 31 13 (direct) Email: ten@teknologisk.dk

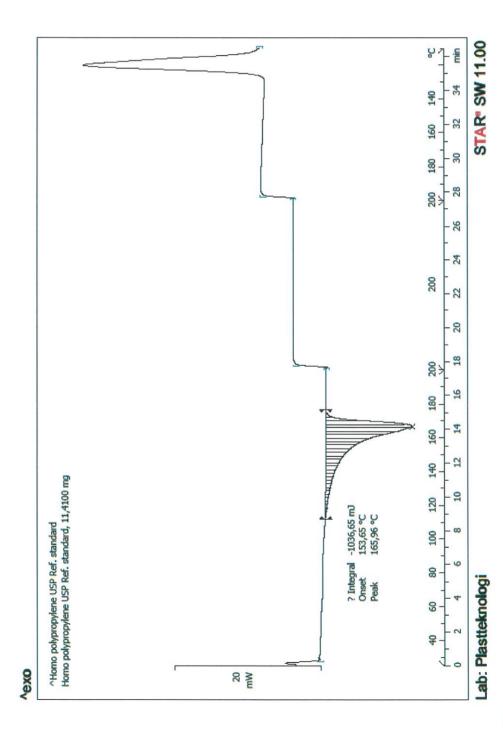
Conditions:

The test results are solely referring to the tested (examined) materials. The testing has been performed in compliance with an accreditation

from the Danish Accreditation Scheme.

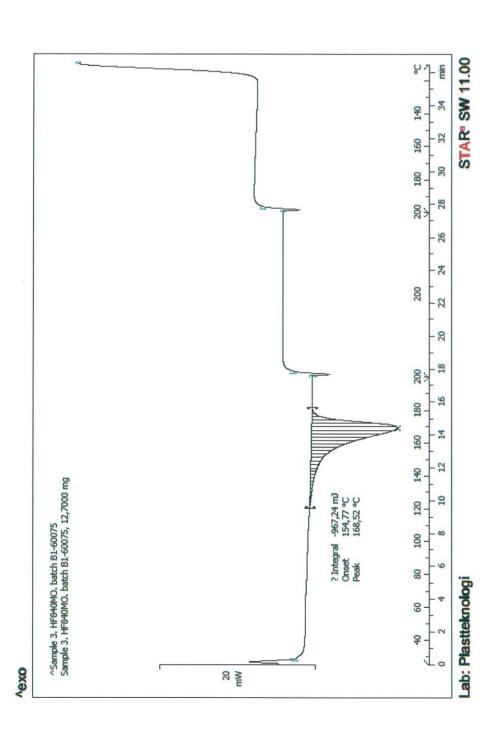
Enclosed are the General Terms and Conditions regarding Commissioned Work accepted by the Danish Technological Institute (DTI)
Publication of the Test Report in full is allowed. Publication of extracts from the Test Report is allowed, if the testing la boratory has given a written approval.

Encl. 1, page 1 of 4 1 August 2016 Rep. no. 139/16-3



Ref sample of polypropylene

Encl. 1, page 2 of 4 1 August 2016 Rep. no. 139/16-3

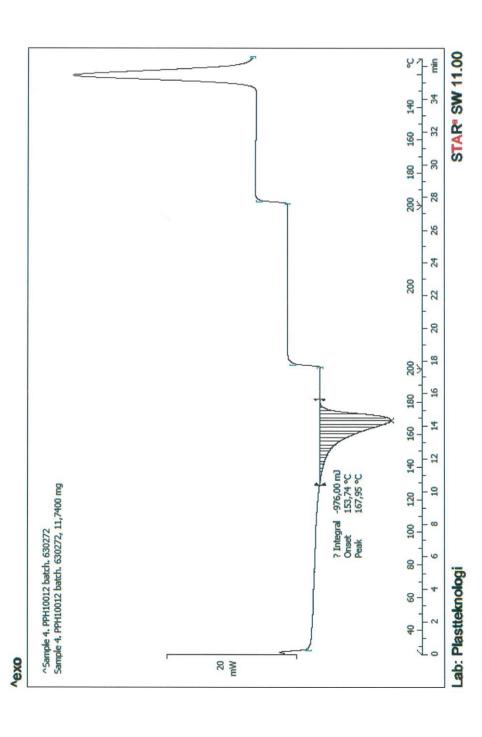


DSC sample no. 3

Raw material: HF840MO (PP) Batch no.: B1-60075

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Encl. 1, page 3 of 4 1 August 2016 Rep. no. 139/16-3



DSC sample no. 4 Raw material: PPH 10012 (PP)

Batch no.: 630272

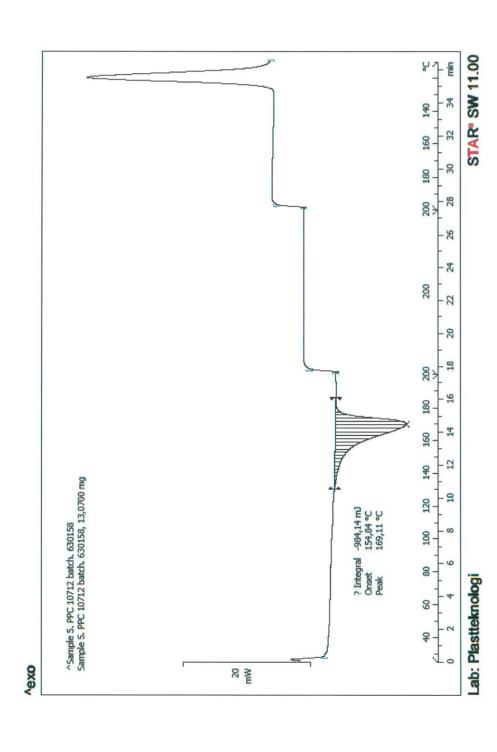
DANISH TECHNOLOGICAL INSTITUTE

DANISH TECHNOLOGICAL INSTITUTE

Encl. 1, page 4 of 4

Rep. no. 139/16-3

1 August 2016



Raw material: PPC 10712 (PP) DSC sample no. 5

630158 Batch no.:





TEST RESULT REPORT

TE202033/20-B9814

Material: Twist-Off Container (60 mL) with Twist-Off Cap and Desiccant

Lot: GF4760 + HF840MO + Purell 2007H

TESTS ON PLASTIC PACKAGING SYSTEMS FOR PHARMACEUTICAL USE - USP 43 NF 38

CHAPTER: 661.2

Client: Gerresheimer Vaerloese A/S

Contact: Mr. René Palmelund

Address: Walgerholm 2-8

3500 Vaerloese

Denmark

Client Purchase Order Number: 15191

Quotation Number: 2004165

Date Receipt Samples: 06 Jul 2020

Date Start Analysis: 23 Jul 2020

Date Technical Release: 30 Jul 2020

Date Final Test Result Report: 14 Aug 2020

REFERENCES:

United States Pharmacopoeia 43 NF 38, Chapter 661.2 section "Physicochemical Tests".

Iris Persy

Study Director

Stijn Nulens, Ing. Quality Assurance Unit

Study Number: 20-B9814



RESULTS:

The results are presented in Table 1.

Table 1: Results of Analysis

Test	Results	Evaluation Criteria	Meets Criteria
Appearance of Solution C1	Clear, no color Solution C1 is clear and colorless		PASS
Absorbance	orbance $\leq 0.20 \text{ A.u.}$ Maximum Absorbance between 230 nm to 360 nm $\leq 0.20 \text{ A.u.}$		Meets Specification
Acidity	+ 0.4 mL 0.01N NaOH → colorless to pink	_	
Alkalinity	+ 0.8 mJ 0.01 N HCl < 0.8 mJ of 0.01 N HCl		PASS
TOC	TOC $\leq 8 \text{ mg/L}$ Maximum difference between Sample and blank TOC $\leq 8 \text{ mg/L}$		Meets Specification

CONCLUSION:

Based on the evaluation criteria mentioned above, the test material *complies with the limits* of the United States Pharmacopoeia 43 NF 38, Chapter 661.2 section "Physicochemical Tests", and meets the specifications for "Absorbance" and "TOC".





TEST RESULT REPORT: 16-B3703-N1

Project Number:

TE161161

Report Date:

30/06/2016

Sponsor:

Gerresheimer Vaerloese A/S

Contact Person:

René Palmelund

Address:

Walgerholm 2-8

Date Sample Arrival:

15/06/2016

City, State, Zip:

3500 Vaerloese

Technical Initiation:

27/06/2016

Country:

Denmark

Technical Completion:

30/06/2016

Study:	Study: Qualitative MEM-elution: Dye exclusion		37°C/24 hours
Test article name:	03827D-3000	Ratio	4g/20mL
Lot number:	Sample 10	Vehicle	MEM-Complete

REFERENCE: According to "ISO 10993-5, 2009: Biological Evaluation of Medical Devices- Part 5:Tests for In Vitro Cytotoxicity." and "USP 39-NF 34, 2016: <87> Biological reactivity test, in vitro." Toxikon Reference: SOP 3.1.2.3, rev. 10

PROCEDURE: The biological reactivity of a mammalian monolayer, L929 mouse fibroblast cell culture, in response to the test item extract was determined. The sample and control articles were autoclaved prior to the preparation of the extracts. Extracts were prepared at $37\pm1^{\circ}\text{C}$ for 24 ± 2 hours in a humidified atmosphere containing $5\pm1\%$ carbon dioxide (static). Positive (natural rubber) and negative (silicone) control articles were prepared to verify the proper functioning of the test system. The maintenance medium on the cell cultures is replaced by the extracts of the test item or control article in triplicate and the cultures are subsequently incubated for 2 days, at $37\pm1^{\circ}\text{C}$, in a humidified atmosphere containing $5\pm1\%$ carbon dioxide. Biological reactivity was rated on the following scale: Grade 0 (No reactivity); Grade 1 (Slight reactivity), Grade 2 (Mild reactivity), Grade 3 (Moderate reactivity) and Grade 4 (Severe reactivity). The test item is considered to have no cytotoxic potential if none of the cultures exposed to the test item shows greater than mild reactivity (Grade 2).

RESULTS: No reactivity (Grade 0) was exhibited by the cell cultures exposed to the test item at the 2 days observation. Severe reactivity (Grade 4) was observed for the positive control article. The negative control article showed no signs of reactivity (Grade 0).

OPINION AND INTERPRETATION: Based on the evaluation criteria mentioned above, the test item is considered to have no cytotoxic potential.

RECORD STORAGE: All raw data generated in this study will be archived at Toxikon Europe, according to SOP 4.2.8.

AUTHORIZED PERSONNEL

Ms. Vanessa Ruymen

Study Director

Ms. Anja De Schouwer Quality Assurance

The test results on the enclosed report are only referring to the tested articles. Partly reproduction of this report can only be allowed after written permission of Toxikon. Toxikon guarantees that all results are acquired by testing according to officially accepted scientific methodology.

Running-in of Duma OneLiner

Introduction

The Duma OneLiner Closure is a further development of the Duma Twist-Off Closure. Basically the closures are based on the same raw material, external dimensions etc., i.e. as identical as possible, but intended for induction sealing.

When running-in the Duma OneLiner Closure on an existing filling line the closure must be handled as a new closure to ensure:

- That the closure is mounted correct and ensure contact between the liner and the container
- That the closure is not stripped and in this way damaged or that the container is damaged, and
- That the closure is not screwed too deep on the container as this might cause deformations, and
- That settings on your induction station are adjusted correctly to ensure a good sealing of the container combined with an easy detachment between cardboard and aluminum foil

Therefore, we recommend that running-in, test and validation are performed on the filling line and in the process, even though the filling line has handled Duma Twist-Off Closures before.

Concrete observations

If materials are overheated or chilled during transit or storage, it is advisable to store them in the recommended temperature and humidity range for at least 48 hours before processing further. Recommended storage conditions are a temperature between 15-30°C and a relative humidity from 40% to 60%.

During the validation, it is important to be aware of the fact that a too low adjusted torque might influence the tightness of the packaging, as the container will not have sufficient contact with the sealing foil. This means that the contact between foil and

container, which is necessary to obtain a correct sealing at the induction station will be missing, i.e. the closure has not been screwed tight enough on the container.

Contrary if the torque is too high the top of the closure will be squeezed off as the top of the container neck will squeeze against the inner of the closure and the flexibility, which is built into the curvature in the top of the closures, will be exceeded and the closure will break, i.e. the closure has been screwed too tight on the container.

We must draw the attention to the fact that some engine fitters are able to adjust the speed of screw. Experience shows that a too high speed of screw combined with a too high torque makes the closures break.

Therefore, it is important that the validation contain both speed of screw and torque and that you try to obtain the settings on which both parameters are as low as possible in respect of the tightness of the packaging.

In order to grant a good sealing, which will ensure an easy separation of cardboard from aluminum foil without leaving wax residues on the cardboard, we recommend you to validate power and time settings required on your filling line.

Other matters

In case of further questions, please contact your daily sales contact in order to clarify these questions.

25 April 2018 Technical Support

Quality Control

The quality assurance system of Gerresheimer Plastic Packaging is oriented towards a "zero defect strategy". AQL values for dimensions must be within agreed specified limits. The necessary safety with respect to avoidance of dimensions out of specification (OOS) is achieved by means of process validation including risk analysis and/or in-line measurements and/or measurements on samples.

AQL values are defined on attributive characteristics according to below classification.

Classification of defects

Classification of defect	Effects of defects	Defect class		AQL ers / Caps	Consequence
Critical	Critical defects are defects whose presence can have critical consequences. They can, for example: endanger human life or health or violate legal requirements or lead to destruction or alteration of filling material or seriously impair the reliability of storage or seriously impair the efficiency of production tools, filling and packaging equipment	1	(*)	(*)	Packaging material not usable
Major	Major defects are defects whose presence can lead to considerable impairment. They can, for example: • lead to inefficient function and thus	2A	0.25	0.1	Usability of packaging material markedly impaired
	to deficiency of the packaging material/pack or lead to consumer complaint or lead to reduced efficiency in production or impair the efficiency of production tools, and filling and packaging equipment	2B	1.0	0.4	Usability of packaging material moderately impaired
Minor	Minor defects are defects whose presence do not have essential consequences, for instance they represent a reduction in general quality	3	4.0	2.5	Usability of packaging material slightly impaired

(*) No AQL value is defined for defect class 1 since for this defect class, tests are done against zero defects with the greatest possible certainty and/or manufacturing process is to be correspondingly validated.

The necessary safety with respect to the avoidance of critical defects class 1 is achieved by means of process validation measures including risk analysis and/or in-line inspection and system checks. If defects of class 1 are found, it must be determined whether the entire batch or part of the batch is affected.

If a partial quantity containing a critical, major or minor defect can be clearly and reliably separated, the quality of the remainder of the batch must be evaluated separately.

AQL values for Duma OneLiner with CR

Defe	cts	Defect class
	Raw material, primary packaging material or labelling not according to specification Mix-up CFU exceeds specification Shelf life exceeded Moisture vapour transmission or multiple internal reflectance or differential scanning calorimetry or physicochemical or biological reactivity – in vitro <87> OOS according to USP or EP Migration testing exceeds requirements for food contact material Contamination inside, contamination outside - can get into content Tears, clefts, holes, parts incompletely moulded - usability or tightness not ensured Defects on sealing points - tightness impaired Engraved/embossed text is missing or incorrect Threads from injection point - can be detached Child resistant does not function Liner missing	1
	Foreign bodies incorporated in the material Contamination outside on product - cannot get into product Inhomogeneous colour Deformation, parts incompletely moulded - usability markedly impaired Defects on sealing points - tightness not impaired Injection point too high Flashes - usability markedly impaired Uneven surface Burn marks > 2 mm PE - Bags with holes or incorrectly closed Opening force or application force outside specification	2A
- - -	Burn marks ≤ 2 mm Notches and clefts and roughness Flashes - usability moderately impaired Threads from injection point - cannot be detached	2B

If a carton is damaged or soiled upon arrival, the error must be noted at arrival on the shipping documents and the carton discarded. The remaining part of the batch is to be received as normal goods.

Dok. nr. 2.3.3.11 Version: 2.0 Implementeret: 01.07.2016 Duma OneLiner with CR Page 2/4

Quality control for Duma OneLine	
Activity	Control
Incoming control of raw materials	Identification of goods received and control of certificates.
Set-up new mould or change of raw materials or control specification	Line clearance including control of correct use of raw materials. One sample of each cavity produced at the same time is visually controlled as well as checked for critical dimensions with plug-and ring gauges by production and QC prior to production start.
Production	QC operator performs a visual control of the products in accordance with ISO 2859-1. The samples are taken every second hour (one sample per cavity produced at the same time). A sample of each cavity is checked for critical dimensions with plug-and ring gauges. New approval by production and QC is required after machine stops
	lasting more than one hour.
	In case of unplanned machine stops where components can be defected the products are 100% controlled or scrapped.
	If defects are detected, components are quarantine stored or 100% controlled.
Quality control	QC reviews all the production documentation and point out components that need additional control. This also includes follow-up on components which are quarantine stored by production.
	QC controls the dimensions of the samples from two of the inprocess controls with plug-and ring gauges. They also perform a function test by mounting, open and re-closing the system. The samples are from two different shifts.
	QC releases the components for assembly.
specification in assembly department	Line clearance is performed. Samples are visually controlled by production prior to production start.
Assembly of caps and mounting of liner	QC operator performs a visual control of the products in accordance with ISO 2859-1. The samples are taken every second hour.
	If there is a machine breakdown a new approval by production is required. In case of machine breakdown where products can be defected the products are 100% controlled or scrapped.
	If defects are detected, products are quarantine stored or 100% controlled.

Quality control	QC reviews all the production documentation and point out products that need additional control. This also includes follow-up on products which are quarantine stored by production.
	QC performs a function test by mounting, open and re-closing the system. The samples are from two different shifts.
	The opening force and the weldability are measured daily. Additional tests are performed when required.
	QC controls the pallets for mix-up and incorrect labelling, releases the products and issue certificates with the results of the controls.

Measurement of Opening Force (Torque)

Caps are mounted on a container and measured by a torque tester according to valid instruction.

Release criteria:

- Average of the results must be within defined specification +/- upper and lower limit
- A maximum of 15% of the individual items must exceed 10% of the upper or lower limit
- A maximum of 10% of the individual items must exceed 20% of the upper or lower limit

April 14, 2020

Declaration of Conformity

European Pharmacopoeia (EP)

Declaration concerns all products with the following composition:

- HF840MO & White masterbatch
- HF840MO & White masterbatch & Liner
- HF840MO & White masterbatch & Molecular Sieve & Bottom Foil
- HF840MO & White masterbatch & Silica Gel/Molecular Sieve & Bottom Foil
- HF840MO & White masterbatch & Silica Gel & Bottom Foil

Supplier of resin only confirms that resin fulfill monograph 3.1.6 Polypropylene for containers and closures for parenteral preparations and ophthalmic preparations but only as to composition of polymer and maximum limits of additives. According to information from supplier and based on their observations, some of batches have failed the test of appearance of solution and absorbance but some have passed the tests. Additionally, supplier informed about non-compliance of resin the reducing substances tests from monograph 3.1.6. due to the more stringent pass criteria of the test (<0,5 ml) compared to the monograph 3.1.3 Tests results are affected by the presence of slip and the results are inconsistent. The results are available upon request.

According to declaration from the supplier of the resin, slip agent is not classified as hazardous, according to the Regulation (EC) No. 1272/2008 (CLP). Additionally, from food contact side there are no restrictions for the use of this additive in EU or US.

The masterbatch, Silica Gel, Molecular Sieve, Liner and Bottom Foil used during production comply with the relevant regulations related to plastic materials intended to come into contact with food however the suppliers do not declare the materials to be in compliance with the European Pharmacopoeia.



Gerresheimer Vaerloese A/S · Walgerholm 2-8 · DK-3500 Vaerloese · Denmark

Gerresheimer Vaerloese A/S additionally informs that our packages dedicated for solid oral dosage forms and solid active substances are tested in accordance with food law. For such substances, it has been agreed by the Joint Committee for Medicinal Products for Human Use / Committee for Medicinal Products for Veterinary Use Quality Working Party that plastic materials compliant with the relevant European Union (EU) food legislation relating to plastic materials and articles intended to come into contact with foodstuffs are considered acceptable.

Yours sincerely,

Anna Wiśniewska

Ama Wimiento

Regulatory Affairs Manager Primary Packaging Plastics



DECLARATION OF CONFORMITY

Gerresheimer Vaerloese A/S Walgerholm 2-8 3500 Værløse, Denmark

European Union (EU) Food Contact

Based upon the certificates from our suppliers of resins and masterbatches, product tests and our certified Quality system, Gerresheimer Vaerloese A/S hereby confirms that the below listed products comply with relevant requirements of Regulation (EC) No 1935/2004 (Framework Regulation) on materials and articles intended to come into contact with food, Regulation (EC) No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food and Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food as amended inclusive Regulation (EU) 2019/37.

- Duma Twist-Off Caps with or without desiccant white coloured products
- Duma OneLiner white coloured products

The intended use for the above listed products is storage of medicine and foodstuff as powder and tablets without fatty surface according to the product specification. Shelf life is 5 years without desiccant, 2 years with a silica gel desiccant and 1 year with a molecular sieve desiccant.

The products have been tested for contact with dry food to long time storing at room temperature.

A functional barrier made from plastic is not used in the above-mentioned products.

In contrast to specific migration testing where volatile migrants adsorbed onto simulant E can be analysed specifically without losing them, for overall migration testing a gravimetrical determination is applied to the extract of simulant E with the consequence that migrants previously adsorbed to simulant E are largely lost again during evaporation of the solvent. Therefore foods, for which only simulant E is prescribed by the Regulation, are not subject to overall migration limit testing.

When used as specified, tests have shown that the specific migration does not exceed the legal limits.

The formulation of the raw materials used for the production of the concerned products contains the below listed substance considered to be a dual-use substance according to Regulation (EU) No 10/2011:



Duma Twist-Off Cap and Duma OneLiner:

- Titanium dioxide FCM no 610
- Polydimethylsiloxane FCM no 575
- Benzoic acid & salts FCM no 116
- Acids FCM no 9

Duma desiccant insert:

- Silicon dioxide E551
- Titanium dioxide FCM no 610
- Polydimethylsiloxane FCM no 575

The products contains components with Specific Migration Limit:

Duma Twist-Off Cap and Duma OneLiner:

Cas no. 7429-50-5 Aluminium SML = 1 mg/kg
 PM ref 39090 Atmer SML(T) = 1.2 mg/kg

Duma desiccant insert:

Cas no. 7429-50-5 Aluminium SML = 1 mg/kg

The migration tests have been performed according to Regulation (EU) No. 10/2011 (Annex V):

- Test conditions (contact time above 30 days at room temperature):
 - 10% ethanol / 10 days / 60°C by total immersion
- Surface to volume ratio:
 - 10% ethanol: 1.99 dm² / 100 ml (Duma Twist-Off Cap & Duma OneLiner)
 - 10% ethanol: 1.98 dm² / 100 ml (Duma desiccant insert)

USA Food and Drug Administration and US Pharmacopoeia (USP)

Based upon certificates from our suppliers of resins and masterbatches, we state compliance of Bormed HF840MO & Purell 2007H with relevant parts of FDA title 21 CFR § 177.1520 and of PP 12455 White MB & Remafin-pe White E PE0CAB12020 with relevant parts of FDA title 21 CFR §§ 177.1520 & 178.3297.

The products comply with the requirements defined in the USP in relation to the following tests:

- <661> Single Internal Reflectance
- <661> Differential Scanning Calorimetry
- <661> Physicochemical test
- <671> Moisture Vapour Transmission
- <671> Light Transmission

Værløse, January 27, 2020

Christina D. Holder Quality Manager



April 14, 2020

Declaration of Conformity

Primary Packaging Plastics requires from all raw materials suppliers to inform about any animal derived substances used for production of their products and also requests from suppliers to consider and fulfill the relevant regulations of the European Community about the avoidance of TSE/BSE contamination.

If applicable, all suppliers are requested to fulfil the requirements:

- The animal derived substances used for the manufacturing of their polymers are either produced from animals originating from BSE-free countries or are free from SRM (specified Risk Material).
- The manufacture of the animal derived substances involves rigorous processes that meet/exceed the very severe process conditions for inactivating any BSE/TSE agent.

If any of raw materials contain ancillary materials based on fatty acid, such fatty acids might have a number of origins from for example plants, animal or synthetic, where the animal origin is the most common. The use of these subsidiaries as ancillary materials, including packaging for the pharmaceutical - and the foodstuff industries, are regulated through a number of EU directives. Tallow derived materials used in some product fulfill the requirements laid down in the Regulations 1069/2009/EC, and 142/2011/EC, and the "Note for Guidance EMEA/410/01, rev. 3". These directives regulate the general use of these products and specifically security against BSE to transmit to pharmaceutical - or foodstuff products.

Primary Packaging Plastics has received statements or certificates from all suppliers, where they state that:

- their products do not contain specific material of risk (SRM) and that infection does not transmit via their products, or
- their products fulfilled all requirements laid down in relevant regulations concerning BSE/TSE substances.

Yours sincerely,

lace

Katarzyna Jawor Compliance Specialist Primary Packaging Plastics

March 22, 2019

Declaration of Conformity

Declaration concerns the following products:

- Duma Twist-Off Cap
- Duma Twist-Off Cap with Desiccant
- Duma OneLiner
- Duma Pocket CR

Gerresheimer Plastic Packaging only process the raw materials delivered from the suppliers and do not add any additional materials to such raw materials. Based upon the certificates from the suppliers of the raw materials, Gerresheimer Plastic Packaging hereby confirms that:

- Melamine
- Bisphenol A
- Latex
- Allergens

have not been intentionally added during their production. However, the fact that these substances are not used in these products it does not exclude that trace levels of them may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process. Please note that, in any case suppliers do not carry out any specific analyses in order to detect the presence of the above mentioned substances.

Phthalates

The supplier of masterbatch PP12455 informed that formulation of this product contains traces of phthalates.

Based on information from the rest of suppliers of raw materials used in manufacture of above mentioned products, Gerresheimer Plastic Packaging hereby declares that phthalates have not been intentionally added during their production.

The information is given to the best of our knowledge and does not include any warranty whatsoever. It must therefore not be misunderstood as guaranteeing specific properties.

Yours sincerely,

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Wioleta Jasińska

Junior Compliance Specialist

Gerresheimer Plastic Packaging



DECLARATION OF CONFORMITY

Gerresheimer Vaerloese A/S Walgerholm 2-8 3500 Værløse, Denmark

Gerresheimer Vaerloese A/S has taken appropriate precautions to reduce the risk for TBA (2,4,6-tribromoanisole) and TCA (2,4,6-trichloroanisole) contamination of products supplied to our customers.

TBA with a threshold of 0.02 PPT and TCA with a threshold of 1 PPT do not introduce any toxicological risks but can have impact in musty molded odor.

Risk for TBA/TCA contamination is included into the risk analysis for the whole manufacturing and handling/storage process in the plant and all wooden pallets used for raw materials, component and final products are heat treated and comply with ISPM 15.

Gerresheimer Vaerloese A/S can only be held responsible for any odor issues due to TBA and/or TCA contamination, if it can be proven that the contamination of the primary plastic packaging has happened before shipment of the products.

Værløse, April 16th, 2020

Christina D. Holder Quality Manager

Customer Complaint Report



☐ Complaint ☐ Comment / Remark	Established by / date:
Customer report No:	
Customers name / address / country:	Contact person / E-mail / Fax no.:
Article no.:	Date of delivery:
Batch no.:	Invoice no.:
Cavity no.:	Order no.:
Number of defective items:	Total quantity delivered:
Defect observed in: ☐ Incoming control	
Defect found in: ☐ One carton ☐ Several cartons: Quantity	Exact production date/time from carton/bag or carton/bag/pallet number:
Are filled/not filled products quarantined:	Samples:
☐ Yes – Quantity (filled):	☐ Will be send
☐ Yes – Quantity (med):	□ Not available
□No	☐ Additional information will be forwarded
□ N/A – no products left	Additional information will be forwarded
Description of defect:	

Received by QA dept. (init. / date):



We will kindly ask you to supply us with the answers to the below listed questions. The information is important for us, to make a thorough investigation.

Please return the information as soon as possible, so that we can initiate our investigation.

Labelling

Company name:		Today's date:
□ Wrong information□ Missing information□ Missing label□ Label difficult to read		
 □ Samples have been send □ Samples will be send □ Pictures are available □ No samples or pictures are available 	/ailable	
The defect is observed in ☐ One bag/carton ☐ Several bags/cartons - Quantity		
Exact production date and time for all concerned bags		
Exact quantity of defective items/bags/cartons		
How many bags/cartons have been controlled		
Amount of products blocked		
Comments:		



We will kindly ask you to supply us with the answers to the below listed questions. The information is important for us, to make a thorough investigation.

Please return the information as soon as possible, so that we can initiate our investigation.

Loose silica gel / loose desiccant / defect on desiccant

	¥	
Company name:		Today's date:
☐ Samples have been send ☐ Samples will be send ☐ Pictures are available ☐ No samples or pictures are available		
Defect observed in: ☐ Upon reception at your warehouse ☐ Incoming inspection - sample size/plan: ☐ Observed in PDS ☐ Before filling/when opening the cartons ☐ Before filling/on your line ☐ After filling ☐ Market complaint		
Defect observed in ☐ One bag ☐ Several bags - Quantity		
Exact production date and time for all concerned bags		
Exact quantity of defective items		
Are there any signs of damage to cap, desiccant or cardboard		
Are there any signs of transport damage to bag or carton		
Quantity of item used or controlled from the batch		
Amount of products blocked		
Amount of filled products blocked		
Comments:		



We will kindly ask you to supply us with the answers to the below listed questions. The information is important for us, to make a thorough investigation.

Please return the information as soon as possible, so that we can initiate our investigation.

Mix-up

Company name:		Today's date:
Ordered product		
Product received		
How many bags/cartons have been controlled		
Amount of products blocked		
Production date and time of all the concerned bags/cartons		
□ Samples have been send □ Samples will be send □ Pictures are available □ No samples or pictures are available For for mix-up - both carton label and bag label is important – and it would be helpful, if the pictures also showed the production date/time.		
Comments:		



We will kindly ask you to supply us with the answers to the below listed questions. The information is important for us, to make a thorough investigation.

Please return the information as soon as possible, so that we can initiate our investigation.

Partly- or disconnected TE-rings

		<u> </u>
Company name:		Today's date:
 □ Samples have been send □ Samples will be send □ Pictures are available □ No samples or pictures are available 	ble	
Quantity of caps with disconnected TE-rings		
Quantity of caps with partly disconnected TE-rings Please specify quantity of broken bridges according to the AQL values/specification.		
Specific cavity number affected		
Defect observed in: Incoming inspection - sample size Observed in PDS Before filling/when opening the ca Before filling/on your line After filling Market complaint		
Quantity of item used or controlled from the batch		
Amount of products blocked		
Amount of filled products blocked		
Defect observed in ☐ One bag/carton ☐ Several bags/cartons - Quantity		
Exact production date and time for all concerned bags		
Are there signs of damage to the cap/bag/carton		
Comments:		



We will kindly ask you to supply us with the answers to the below listed questions. The information is important for us, to make a thorough investigation.

Please return the information as soon as possible, so that we can initiate our investigation.

Product defect

Company name:	Today's date:	
☐ Samples have been send ☐ Samples will be send ☐ Pictures are available ☐ No samples or pictures are available		
Defect observed in: Upon reception at your warehouse Incoming inspection - sample size/plan: Observed in PDS Before filling/when opening the cartons Before filling/on your line After filling Market complaint		
Exact quantity of defective items		
Specific cavity number affected		
Quantity of item used or controlled from the batch		
Amount of products blocked		
Amount of filled products blocked		
Defect observed in ☐ One bag ☐ Several bags – Quantity		
Exact production date and time for all concerned bags		
Comments:		



We will kindly ask you to supply us with the answers to the below listed questions. The information is important for us, to make a thorough investigation.

Please return the information as soon as possible, so that we can initiate our investigation.

Transport

Company name:		Today's date:
☐ Pictures are available ☐ No pictures are available		
☐ A copy of the CMR ("Proof of delivery" from the transporter) has been forwarded ☐ A copy of the CMR ("Proof of delivery" from the transporter) will be forwarded ☐ The CMR ("Proof of delivery" from the transporter) is not available		
Defect observed on ☐ One carton ☐ Several cartons		
Exact quantity of damaged cartons		
Products can be used	□ yes / □ N	0
Comments:		