Approval Number: 1411521 Test Report: MAT/LAB 653H



Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

2nd December 2014

Desca AG Lerzenstrasse 14, CH-8953 Dietikon, Switzerland

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS) MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

HOSES & TUBING 5140

Descaflex PWH-300 also known as Descaflex PWH C-300. Black coloured, single layer, extruded HDPE cable. For use with water up to 23°C.

APPROVAL NUMBER: 1411521 APPROVAL HOLDER: DESCA AG

The Scheme reserves the right to review approval.

Approval 1411521 is valid between November 2014 and November 2019

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

Jason Furnival Approvals & Enquiries Manager Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. Approval of this material does not signify the approval of its mechanical or physical properties for any use.

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

Modifications to existing Approvals

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.



PRÜFZEUGNIS

über die Untersuchung von "Kabel aus DESCAFLEX PWH-300 und DESCAFLEX PWH C-300, schwarz" gemäß der KTW-Leitlinie des Umweltbundesamtes (UBA)

Hersteller:

DESCA AG, Dietikon, Schweiz,

Prod. st:: TecniKabel S.p.A., Volpiano (Mi), Italien

Art der Proben:

PE-Xb Qualität

Bezeichnung der Proben:

"Kabel aus DESCAFLEX PWH-300 und DESCAFLEX PWH C-300, schwarz"

Art der Prüfkörper: Eingang der Proben: Originalprobekörper 30.09.2014

Probenehmer:

Auftraggeber

Probenehmer: TZW-Az.:

KA 0323/14

Untersuchungsergebnisse

1. Rezeptur: wurde unter KC 679/14 vorgelegt und überprüft

Migrationstest:

| Kaltwasser 23°C | 1. – 3. Tag | 4. – 6. Tag | 7. – 9. Tag | Richtwert für 3. Extraktion nicht nennenswert beeinflusst | |
|--|-------------|-------------|-------------|---|--|
| Klarheit, Färbung, Geruch, Geschmack, Schaumbildung | nnb | nnb | nnb | | |
| C-Abgabe [mg C/m²d] | 1,2 | 0,8 | 1,0 | ≤ 12,5 | |

| 4 Rezepturbestandteile, die der Geheimhaltung unterliegen | Richtwert eingehalten | Trinkwasser-SML-Werte nach BedarfsgegenständeV |
|--|-----------------------|--|
|--|-----------------------|--|

Die untersuchten Proben "Kabel aus DESCAFLEX PWH-300 und DESCAFLEX PWH C-300, schwarz" für den Kontakt mit Trinkwasser entsprechen den Anforderungen der KTW-Leitlinie des Umweltbundesamtes (UBA) (Bundesgesundheitsblatt aktuelle Fassung) im Bereich Ausrüstungsgegenstände.

Anmerkung:

Die Gültigkeit dieses Prüfzeugnisses richtet sich nach andernorts festgelegten Bestimmungen. Sie endet jedoch spätestens 5 Jahre nach Ausstellungsdatum.

Für eine Verlängerung gelten gesonderte Bestimmungen.

Karlsruhe, den 11.12.2014

Dr. J. Klinger / i.A. Dr.-Ing. R. Turkovic Leiter der Prüfstelle

Die Veröffentlichung des Prüfzeugnisses – vollständig oder in Auszügen – ist ohne ausdrückliche Genehmigung von seiten der Prüfstelle nicht gestattet



PRÜFZEUGNIS

über die Prüfung nach DVGW-Arbeitsblatt W 270 (11/2007) "Vermehrung von Mikroorganismen auf Werkstoffen für den Trinkwasserbereich"

Hersteller: DESCA AG, Dietkon, Schweiz

Art der Proben: Kabelummantelung, PE-HD-Qualität, schwarz

Bezeichnung der Proben: DESCAFLEX PWH-300 und DESCAFLEX PWH C-300

Eingang der Proben: 10.07.2014

Probenehmer: Auftraggeber

TZW-Az.: MO 200/14

Das vorgelegte Probenmaterial DESCAFLEX PWH-300 und DESCAFLEX PWH C-300 entspricht aus mikrobiologischer Sicht den Anforderungen des DVGW-Arbeitsblattes W 270 (11/2007).

Die Einzelergebnisse sind in einem gesonderten Prüfbericht zusammengefasst.

Die Gültigkeit dieses Prüfzeugnisses richtet sich nach andernorts festgelegten Bestimmungen. Sie endet jedoch spätestens 5 Jahre nach Ausstellungsdatum.

Das Prüfzeugnis ist nur solange gültig, wie keine Veränderungen in Zusammensetzung und Herstellungsprozess des Werkstoffes erfolgen.

Karlsruhe, den 24.02.2015

Dr. J. Klinger / i.A. Dr.-Ing. R. Turkovic Leiter der Prüfstelle



Angst+Pfister Group Group Engineering Thurgauerstrasse 66 Postfach CH-8052 Zürich

Email: ch@angst-pfister.com Internet: www.angst-pfister.com

DECLARATION OF CONFORMITY

in accordance with DIN EN ISO/IEC 17050

Date: 14 December 2016 Phone: +41 44 306 6257

Issuer: MRI

Declaration subject:

Material description:

EPDM 70.10-02 (EPDM 75.5/KW75F)

The material described above meets the requirements stipulated in the following guidelines/standards:

Homologations: (Update acc. 25/05/2016 rev 36)

WRAS (BS 6920) for drinking water, cold and warm up to 85°C; it will expire on: May 2019

SAI GLOBAL (AS/NZS 4020) for drinking water, cold and warm up to 85°C; it will expire on: 07/03/2019

In compliance with **FDA** (177.2600-21) requisites for food. RP N° 588/98 of CERISIE lab

UBA for drinking water, cold and warm up to 85°C; it will expire on 09/05/2021

DVGW-W270 E (11/2007) for drinking water; it will expire on 25/04/2021

DVGW W534 for warm drinking water Type WA-WB N° DW-5253BQ0461. It will expire on 26/09/2018

NSF (Standard 61) for drinking water, cold and warm up to 82°C; (Standard 51) for food till 100°C

ÖNORM B 5014-1 for drinking water, cold and warm up to 85°C. It will expire on 24/06/2018

KIWA (BRL-K17504) for warm drinking water. EN 681-1 Type WA-WB-WC-WD

In compliance with the requirements of: D.M. 06/04/04 n° 174. BfR XXI – Category 4

3-A Sanitary Standard N° 18-03 Class II AS/NZS 4020:2005 Report ID 124337

USP class VI, Chapter <87> (In Vitro) and Chapter <88> (In Vivo) - 121°C

ACS (DGS/VS4 n° 99/217 dated 12/04/1999 and DGS/VS4 n° 2000/232 dated 27/04/2000. exp. 24.02.2019 **2011/65/EU (RoHS)**

EC-Regulation 1935/2004 article 3 and EC-Regulation 2023/2006,

free of Animal Derived Ingredients (ADI) resp. TSE/BSE related substances

free of Phthalates (DEHP), free of Bisphenol A (BPA)

Additional information:

Expiration date of this declaration of conformity is 31.12.2017

Angst + Pfister Group Engineering

Zurich, 14 December 2016

Y. Riedo R. Mosimann

Senior Engineer Engineering Data Administrator

D Monmann

1

(Place and date of issuance)

(Name and signature or equivalent authentication of authorized persons)



25 January 2017, Bergen op Zoom, The Netherlands

Subject: Test certificate according to KTW (Kunststoffe in Trinkwasser) guideline

Dear Most Valued Customer

Thank you for using SABIC products.

Please find attached the German KTW (Kunststoffe in Trinkwasser) test certificate pursuant to the KTW guideline.

Any addition to this material is the sole responsibility of the downstream user.

SABIC has no control over final material composition nor over processing conditions. It is therefore the responsibility of the manufacturer that markets the final material or article to have these final materials and articles certified according to the KTW guideline.

Kindly note that this confirmation is only valid for the specific product shown up at the Test Certificate which is manufactured in Bergen op Zoom, The Netherlands.

Do note that the information above is current as on the date of this letter. The information provided in this letter is based upon information currently available to Seller. I trust the above information will be of use to you.

This letter supersedes all earlier communications on the same subject matter. If you have any further questions, or you require additional information on the above, please contact: webinquiries@sabic-ip.com (EU).

In the name of the manufacturer,

for SABIC Bas van Sikkelerus Product Stewardship

Enclosure: Test Certificate

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC and brands marked with $^{\text{TM}}$ are trademarks of SABIC or its subsidiaries or affiliates.

© 2015 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

[†] Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie Direktor: Prof. Dr. rer. nat. L. Dunemann

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



HYGIENE-INSTITUT - Postfach 10 12 55 · 45812 Gelsenkirchen / GERMANY

SABIC Innovative Plastics BV Plasticslaan 1 4612 PX BERGEN OP ZOOM THE NETHERLANDS

Visitor's/Parcel Address: Rotthauser Str. 21 45879 Gelsenkirchen

Telephone Extension

+49 (0) 209 9242-0 +49 (0) 209 9242-351 +49 (0) 209 9242-212

Telefax E-Mail Internet

a.bernoussi@hyg.de www.hyg.de

Reference-No.: Contact person: Prolongation:

K-280214-17-Bs/st Anasse Bernoussi (Eng.) K-204360-11-Bs

Gelsenkirchen,

19.01.2017

TEST CERTIFICATE according to the KTW Guideline

Product:

NORYL 731S-701-1977, NORYL 731S-801-1977, NORYL 731S-845-1977,

NORYL 731S-960-1977

Test specimen:

Discs ED 100 mm thickness 3 mm

The above mentioned product was tested according to the Guideline on the hygienic assessment of organic materials in contact with drinking water of the German Environment Agency. Pursuant to the test report-no.: K-204360-11-Bs dated 01.07.2011 and K-280214-17-Bs/st dated 19.01.2017 the product meets the requirements for the product group:

Fittings for pipes with DN < 80 mm in contact with cold water (23°C) and hot water (85°C).

All product groups for which the requirements are met are summarised on the back side.

The certificate is valid providing that the requirements, laid down in the Guideline regarding the testing of the microbial growth are fulfilled. This can be verified for the product f.e. with a valid test certificate according to the DVGW technical rule W 270.

This test certificate is valid beginning with the date of issue and is ending by 01.07.2021 as far as there are no changes in the formula.

The Director of the Hygiene-Institute

on behalf of

Dr. rer. Nat. Andreas Koch Head of the Dept. for water hygienic material testing



The assessment was based on the assumption that the used starting substances and monomers used to manufacture the product may completely known and no other substances are present in the product. The validity of this document expires in case of modifications in the composition of the product or the processing conditions. The results and evaluations refer to the groups of test items. This document may not be published without our written permission only complete and unchanged or duplicated.

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V., Vereinsregister: VR 519 Amtsgericht Gelsenkirchen, USt.·ID: DE125018356 Vorstand: Prof. Dr. Werner Schlake (Vors.), Prof. Dr. Jürgen Kretschmann, Dr. Emanuel Grün, Volker Vohmann, Prof. Dr. Lothar Dunemann (geschäftsf. Vorstand) The mentioned product meets the requirements according to the test report-no.: K-204360-11-Bs dated 01.07.2011 and K-280214-17-Bs/st dated 19.01.2017 for the following product group(s) and temperature(s), as far as technically suited.

| Product group | cold water (23°C) | warm water (60°C) | hot water (85°C) |
|---|----------------------|---|---------------------|
| Pipes with DN < 80 mm (service and domestic pipes) | | | |
| Pipes with 80 mm ≤ DN < 300 mm (distribution pipes) | | | |
| Pipes with DN ≥ 300 mm (large distribution, mains) | | | |
| Fittings for pipes with DN < 80 mm | passed | | passed |
| Fittings for pipes with 80 mm ≤ DN < 300 mm | passed | | passed |
| Fittings for pipes with DN ≥ 300 mm | passed | | passed |
| Seals for pipes with DN < 80 mm | passed | | passed |
| Seals for pipes with 80 mm ≤ DN < 300 mm | passed | | passed |
| Seals for pipes with DN ≥ 300 mm | passed | 21.39 | passed |
| Containers in the drinking water installation including repair systems | | | |
| Containers outside the drinking water installation including repair systems | passed | e de la companya de | passed |
| Repair systems for containers in the drinking water installation with 1/100 of the surface area of the container | passed | | passed |
| Repair systems for containers outside the drinking water installation with 1/100 of the surface area of the container | passed | u u u u | passed |
| Small contact area components of materials for pipes with DN < 80 mm that are only installed in one place in the distribution system (e.g. plain bearing of a pump) | passed | | passed |
| Small contact area components of materials for pipes with 80 mm ≤ DN < 300 mm, that are only installed in one place in the distribution system (e.g. plain bearing of a pump) | passed | y 1800 - 18 | passed |
| Small contact area components of materials for pipes with DN ≥ 300 mm, that are only installed in one place in the distribution system (e.g. plain bearing of a pump) | passed | Tron the leaker's | passed |

If further products or components with the same formulation are produced with the same process at one production site and differ only in geometry, this test certificate applies to further parts of this product range.



13 January 2017, Bergen op Zoom, The Netherlands

<u>Subject: Test certificate according to DVGW (Deutsche Vereinigung des Gas- und Wasserfaches)</u> technical standard W270

Dear Most Valued Customer

Thank you for using SABIC products.

Please find attached the German Test Certificate Enhancement of Microbial Growth on Materials to Come into Contact with Drinking water pursuant to DVGW Technical Standard W 270.

Any addition to this material is the sole responsibility of the downstream user.

SABIC has no control over final material composition nor over processing conditions. It is therefore the responsibility of the downstream user to check if further follow-up tests are required.

Kindly note that this confirmation is only valid for the specific product shown up at the Test Certificate which is manufactured in Bergen op Zoom, The Netherlands.

Do note that the information above is current as on the date of this letter. The information provided in this letter is based upon information currently available to Seller. I trust the above information will be of use to you.

This letter supersedes all earlier communications on the same subject matter. If you have any further questions, or you require additional information on the above, please contact: webinquiries@sabic-ip.com (EU).

In the name of the manufacturer, for SABIC

Bas van Sikkelerus

Specialist, Regulatory Affairs, Corporate Product Stewardship

Enclosure: Test Certificate

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right.

SABIC and brands marked with $^{\text{TM}}$ are trademarks of SABIC or its subsidiaries or affiliates.

© 2015 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

[†] Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie Direktor: Prof. Dr. rer. nat. L. Dunemann

Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



Hygiene-Institut · Postfach 10 12 55 · 45812 Gelsenkirchen

SABIC Innovative Plastics BV Plasticslaan 1 4612 PX BERGEN OP ZOOM THE NETHERLANDS

Visitors/ postal address:

Rotthauser Str. 21, 45879 Gelsenkirchen, Germany

Switchboard Phone Fax E-Mail Internet

(0049209) 9242-0 (0049209) 9242-230 (0049209) 9242-222 c.schell@hyg.de

www.hyg.de

Reference: Before:

W-279046e-16-SI/Krü W-230071e-13-SI Contact person: Mrs. Dr. Ch. Schell

Gelsenkirchen, 15.12.2016

TEST CERTIFICATE

(Extension of Test Certificate W-230071e-13-SI)

Enhancement of Microbial Growth on Materials to come into contact with Drinking water Test pursuant to DVGW Technical Standard W 270, November 2007

Client:

SABIC Innovative Plastics BV

Plasticslaan 1

4612 PX BERGEN OP ZOOM

THE NETHERLANDS

Test material:

Noryl 731S-701-1977

Test method:

Material test

According to test report W-171688e-08-SI of 17.12.2008, the material Noryl 731S-701-1977 is conform to the requirements for the use in the area of drinking water systems pursuant to DVGW Technical Standard W 270. Details regarding testing procedure and test results are itemized in the test report.

This test certificate also covers the materials Noryl 731S-801-1977, Noryl 731S-845-1977 and Noryl 731S-960-1977 (all in material color).

This test certificate is valid from the date of issue and, given that the conditions and requirements remain unaltered, expires on 14.06.2018.

TUT DES The Director of the Institute

Schell Dr. Ch Head of Laboratory

Department of Water Hygiene and Environmental Microbiology

Die Ergebnisse unserer krüfungen und die Bewertungen gelten für die untersuchten Prüfgegenstände und die zum Zeitpunkt der Prüfung geltenden gesetzlichen Regelungen. Die Gültigkeit des Dokuments erlischt, wehn Veränderungen der Zusammensetzung des Werkstoffs oder der Verarbeitungsbedingungen erfolgen. Dieses Dokument darf ohne unsere ausdrückliche schriftliche Genehmigung nur in vollständiger und unveränderter Form veröffentlicht oder vervielfältigt werden.

Dieses Dokument stellt keine DVGW-Zertifizierung dar.



23 January 2017, Bergen op Zoom, The Netherlands

Subject: Water Regulations Advisory Scheme Material approval

Dear Most Valued Customer

Thank you for using SABIC products.

Please find attached the WRAS (Water Regulations Advisory Scheme) approval pursuant to the British standard BS 6920.

Any addition to this material is the sole responsibility of the downstream user.

SABIC has no control over final material composition nor over processing conditions. It is therefore the responsibility of the downstream user to check if further follow-up tests are required.

Kindly note that this confirmation is only valid for the specific product shown up at the Test Certificate which is manufactured in Bergen op Zoom, The Netherlands.

Do note that the information above is current as on the date of this letter. The information provided in this letter is based upon information currently available to Seller. I trust the above information will be of use to you.

This letter supersedes all earlier communications on the same subject matter. If you have any further questions, or you require additional information on the above, please contact: webinquiries@sabic-ip.com (EU).

In the name of the manufacturer,

for SABIC

Bas van Sikkelerus

Specialist, Regulatory Affairs, Corporate Product Stewardship

SABIC

Plasticslaan 1, 4600 AC Bergen op Zoom, The Netherlands

Enclosure: Test Certificate

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC and brands marked with $^{\text{TM}}$ are trademarks of SABIC or its subsidiaries or affiliates.

© 2015 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

[†] Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

Approval Number: 1612542 Test Report: MA5821/Y 1-3



Water Regulations Advisory Scheme Ltd.
Unit 13,
Willow Road,
Pen y Fan Industrial Estate,
Crumlin,
Gwent,
NP11 4EG

20th January 2017

SABIC Innovative Plastics BV P. O Box 117, 4600 AC Bergen op Zoom, The Netherlands

WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS) $\underline{ \text{MATERIAL APPROVAL} }$

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPHENYLENEOXIDE (PPO) - MATERIAL ONLY.

5250

NORYL 731S-701-1977 (black coloured), 731S-801-1977 (beige), 731S-845 (beige) & 731S-960-1977 (grey). Injection moulded PPO materials. For use with water up to 85°C.

APPROVAL NUMBER: 1612542

APPROVAL HOLDER: SABIC INNOVATIVE PLASTICS BV

The Scheme reserves the right to review approval.

Approval 1612542 is valid between December 2016 and December 2021

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

Jason Furnival

Approvals & Enquiries Manager Water Regulations Advisory Scheme

WRAS MATERIAL APPROVAL - MATERIALS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY

The material referred to in this letter is suitable for contact with water for domestic purposes. **Approval of this material does not signify the approval of its mechanical or physical properties for any use.**

Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that; 'the material as listed, having passed the tests of effect on water quality, is suitable for use in contact with wholesome water'

This may be abbreviated to 'Water Regulations Advisory Scheme - Approved Material' or 'WRAS Approved Material'.

The scope of an Approval does not extend to rebranded materials unless otherwise agreed by the Scheme.

Use of the WRAS Approved Material Logo

Approval holders may use the WRAS Approved Material logo and make reference to any approval issued by WRAS Ltd. in respect of a particular material or range of materials provided the approval is, and remains valid.

Approval holders are entitled to use the logo on the packing, promotional literature and point of sale advertising Approved Materials.

Modifications to existing Approvals

It is a condition of WRAS Material Approval that NO changes or modifications to the Approved Material, be made without the Approval Holder first notifying WRAS Ltd. Full details of the proposed changes must be provided to the Scheme. Failure to comply with this condition will immediately invalidate a previously granted Approval.

Re-Approval

WRAS will write to you 1 year before the approval expires asking whether you would like to renew it. Please complete the relevant section of the MA3 application form which will be included with the letter and return to WRAS (via e-mail or post).

Please note it is the responsibility of the Approval Holder to ensure the Approval remains valid. WRAS Ltd. accepts no liability for the delay in granting approval where this is caused by circumstances outside of the Scheme's control.