

January 22, 2016

To Whom It May Concern:

All Components of GoatThroat Pumps, Model GT100 with Nitrile Seals, GT 200 with EPDM Seals, GT200S with Santoprene Seals, GT300 with Viton Seals meet US FDA requirements for Food Contact under CFR Title 21, parts 170 – 199. Documentation for the specific components can be found on the website at the following location:

http://goatthroat.com/goatthroat-for-food-manufacturing/

Best regards,

Manuelto

Nancy Westcott President



Ensuring worker safety and environmental compliance has never been easier.



Polypropylene **TI6120NB**

Sub-group:

High impact Copolymer Polypropylene

Description:

Superior balance of stiffness and low temperature drop impact.

Applications:

Suggested uses include toys, video cassettes, compounding.

Process:

Injection Molding.

Control Properties:

| | ASTM Method | Units | Values |
|---------------------------------------|-------------|----------|--------|
| Nominal Melt Flow Rate (230°C/2.16kg) | D-1238 | g/10 min | 12 |

Plaque Properties ^a:

| · · · | ASTM Method | Units | Values |
|---|-------------|------------|------------------|
| Tensile strength at yield (2 in/min, 50 mm/min) | D-638 | psi / MPa | 2,950 / 20 |
| Elongation at yield (2 in/min, 50 mm/min) | D-638 | % | 6 |
| Flexural Modulus (0.05 in/min, 1.3 mm/min, 1% secant) | D-790A | psi / MPa | 140,000 / 965 |
| Notched IZOD impact strength at 23°C | D-256A | | No break |
| Instrumented impact strength at -29°C | D-3763 | ft-lbs / J | 30 / 41 |
| Rockwell Hardness | D-785 | R | 66 |

a) Tests made in injection molded plates according to ASTM D-4101 classification.

Final Remarks:

- This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA Food and Drugs 1. Administration. The additives present are covered in appropriate regulation by FDA.
- 2. These informations reflect typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
- 3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
 The mentioned values in this report can be changed at any moment without Braskem previous communication.
- 6. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
- 7. Braskem polyolefin products do not have additives with metals or other substances on purpose of oxi-degradation. These additives and the decomposition and disintegration of polyolefins caused by oxi-degradation phenomenon can cause environmental pollution, decrease the package performance and increase migration of package constituent to food, compromising resin approval regarding the requirements of Anvisa Resolution 105/99. The use of these additives with Braskem polyolefin products implies immediate loss of performance guarantee described in this data sheet.



#1 Quality Circle Clinton, TN 37716 (865) 457-6700 FAX (865) 457-3012 www.techmerpm.com

January 31, 2011

Nancy Westcott Goat Throat Pumps 60 Shell Avenue Milford, CT 06460

Dear Nancy:

The components used in the following Techmer PM product meet Food and Drug Administration criteria for food contact as specified and limited by one or more of the food additive regulations as stated below:

| PM55038 BLUE | | | |
|---|----------------------------|---------------------------|--|
| Maximum % by weight | Foods Allowed | Food Additive Regulations | |
| 100% when used in articles that | | 21 CFR 177.1520 | |
| contact food except for articles used | 21 CFR 176.170(c), Table 1 | 21 CFR 177.1620 | |
| for packing or holding food during All Food Types 21 CFR 178.2010 | | | |
| cooking. | | 21 CFR 178.3297 | |

The information above has been compiled from Title 21 of the U.S. CFR and/or the FDA *Inventory of Effective Food Contact Substance Notifications* and is believed to be reliable. It is meant only as a guide, and is not intended to replace, supplement or interpret any regulations.

It is the responsibility of the user to assess its product uses and applications and assure conformance to all applicable laws and regulations.

If you should require additional information on our products, please do not hesitate to contact us.

Sincerely,

Angie Martin Regulatory Product Specialist <u>Amartin@techmerpm.com</u>

cc: Carol Royal

The information and statements herein are believed to be reliable but are not to be construed as warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information on products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

| California Georgia | Kansas | Illinois | Ohio | Tennessee |
|--------------------|--------|----------|------|-----------|
|--------------------|--------|----------|------|-----------|



#1 Quality Circle Clinton, TN 37716 (865) 457-6700 FAX (865) 457-3012 www.techmerpm.com

February 11, 2011

Nancy Westcott Goat Throat Pumps 60 Shell Avenue Milford, CT 06460

Dear Nancy:

The components used in the following Techmer PM product meet Food and Drug Administration criteria for food contact as specified and limited by one or more of the food additive regulations as stated below:

| | P | M44221 RED | |
|------------------------|--|------------------------------------|---|
| Maximum % by weight | Foods Allowed | Temperatures Allowed | Food Additive Regulations |
| 29% | 21 CFR 176.170(c), Table 1 All Food Types | 21 CFR 176.170(c), Table 2, E-G | 21 CFR 177.1520 21 CFR 178.2010 21 CFR 178.3297 |

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|------------|---------|--------|----------|------|-----------|
|------------|---------|--------|----------|------|-----------|



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February 11, 2011

Nancy Westcott Goat Throat Pumps 60 Shell Avenue Milford, CT 06460

Dear Nancy:

The components used in the following Techmer PM product meet Food and Drug Administration criteria for food contact as specified and limited by one or more of the food additive regulations as stated below:

| | | M63799 Green | |
|------------------------|--|--|--|
| Maximum % by weight | Foods Allowed | Temperatures Allowed | Food Additive Regulations |
| 27% | 21 CFR 176.170(c), Table 1 All Food Types | 21 CFR 176.170(c), Table 2, C-H provided further that the finished articles shall not be filled at temperatures exceeding 158°F (70°C) | 21 CFR 177.1520 21 CFR 177.1620 21 CFR 178.2010 21 CFR 178.3297 |

The information above has been compiled from Title 21 of the U.S. CFR and/or the FDA *Inventory of Effective Food Contact Substance Notifications* and is believed to be reliable. It is meant only as a guide, and is not intended to replace, supplement or interpret any regulations.

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cc: Carol Royal

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| California | Georgia | Kansas | Illinois | Ohio | Tennessee |
|------------|---------|--------|----------|------|-----------|
|------------|---------|--------|----------|------|-----------|

DICHTUNGSPARTNER HH GMBH





Dishungspartner Hamburg Circler - Fabilach H3 (1994 - 2232). Hamburg

Dichtungspartner Hamburg GmbH

Konformitätsbescheinigung

hiermit bestätigen wir, dass

unserer Werkstoff:

| DIN 3770/3771 | FPM |
|---------------|---------|
| ASTM 2000 | FKM |
| Shore A | 75 |
| Farbe | schwarz |
| Compound | V78 |

Den CFR(Code of Federal Regulations)der Nara (National Archives and Records Administration) Nr. 21, zustandig für Inhaltsstoffe in Gummiartikein der US FDA (Food and Drug Administration) \$177.2600 bezüglich deren dort aufgeführten Inhaltsstoffe und geforderter Verarbeitung erfüllt.



wir sind zertifiziert nach DIN ISO 9001

Di. 19. November 2002

dieses ist ein elektronisch erstelltes Dokument und ohne Unterschrift gültig

No. IN. 1350/123772

file://H:\MSOFFICE\werkstoffe\fda-conformfpmhoe.htm Telefon 0407 on 86 13-0 Telefos 0407 on 86 13-00 Hamburger Sparkasse BL/ 200 505 50 Ferdmand Harten-Straße 1.5 22949 Anmersbek Emoli Service/Julph de

Sparkasse Stormann BLZ 230 516 10 Kin Nr 260 011 920

19.11.2002 Antsgericht Hamburg USt-IdNi: HRB 36590 DE 118647820 GeschältsRihren

Konformitätsbescheinigung

hiermit bestätigen wir, dass

unserer Werkstoff:

| DIN 3770/3771 | EPDM |
|---------------|---------|
| ASTM 2000 | EPDM |
| Shore A | 70 |
| Farbe | schwarz |
| Compound | EWRC 72 |

Den CFR(Code of Federal Regulations)der Nara (National Archives and Records Administration) Nr. 21, zuständig für Inhaltsstoffe in Gummiartikeln der US FDA (Food and Drug Administration) §177.2600 bezüglich deren dort aufgeführten Inhaltsstoffe und geforderter Verarbeitung erfüllt.

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| | |

wir sind zertifiziert nach DIN ISO 9001

| Mod. 052 - Rev.01 | Meaco | ola: | Codice: 01 | AE70 | BR | 330 S.01/01 | | |
|---|--|--|-------------------------------------|---------------------------|----------------------------|--|--|--|
| 14. 1. 1. | · · · · | | red | | | | | |
| Durezza Sh. A | 70 | Celore | Ral 3020 | | Latta NO | | | |
| Elastomero | Nitrile | Abbreviazione: | NBR | Data: | Lotto Nº 27.03.2001 | | | |
| Placche da 2 mm Placche da 6 mm Tomboli spessor Altri Provini : | di Spessore : | Minuti a] | one Provette 60 °C 60° C | 12 30 | | | | |
| | Properties | Unità di misura | Valori riscontrati | | chicat | Metado di Rese | | |
| Post - Curing : | Properties | Unità di misura Unit | Valori riscontrati Texted Values | Valori R Require | chient | | | |
| Post - Curing ; Parametri | | Ualt | Texted Values | Valori R Require | chicati d values | Test method | | |
| Post – Curing ; Parametri Durezza | Hardness | Ualt Shore A | Texted Values 69 | Valori R Require 70 | chicati d values ± 5 | ASTM D 2240 | | |
| Post – Curing ; Parametri Durezza Densità | Hardnesa Specific gravity | Uait Shore A G/cm ³ | 69 1.274 | Valori R Require | chicati d values ± 5 | ASTM D 2240 | | |
| Post – Curing ; Parametri Durezza Densità Carico Rottura | Hardness Specific gravity Tensile Strenght | Uait Shore A G/cm ³ N/mm ² | 69 1.274 9.2 | Valori R Require 70 | chicati d values ± 5 | ASTM D 2240 ASTM D 1817 | | |
| Post – Curing ; Parametri Dunezza Densità Carico Rottura Allungamento Rottura | Hardnesa Specific gravity | Uait Shore A G/cm ³ | 69 1.274 | Valori R Require 70 | chicati d values ± 5 | ASTM D 2240 ASTM D 1817 ASTM D 412 C | | |
| Post – Curing ; Parametri Durezza Densità Carico Rottura Allungamento Rottura Modulo al 100 % | Hardness Specific gravity Tensile Strenght | Uait Shore A G/cm ³ N/mm ² % | 69 1.274 9.2 | Valori R Require 70 | chicati d values ± 5 | ASTM D 2240 ASTM D 2240 ASTM D 1817 ASTM D 412 C ASTM D 412 C | | |
| Post - Curing ; Parametri Durezza Densità Carico Rottura Allungamento Rottura Modulo al 100 % Lacerazione | Hardness Specific gravity Tensile Strenght Elongation | Uait Shore A G/cm ³ N/mm ² % | 69 1.274 9.2 353 | Valori R Require 70 | chicati d values ± 5 | ASTM D 2240 ASTM D 1817 ASTM D 412 C ASTM D 412 C ASTM D 412 C | | |
| Post – Curing ; Parametri Durezza Densità Carico Rottura Allungamento Rottura Modulo al 100 % | Hardness Specific gravity Tensile Strenght | Uait Shore A G/cm ³ N/mm ² % | 69 1.274 9.2 | Valori R Require 70 | chicati d values ± 5 | ASTM D 2240 ASTM D 2240 ASTM D 1817 ASTM D 412 C ASTM D 412 C | | |

Variazione delle caratteristiche

4

29

Gm/m³

%

°C

°C

°C

%

%

%

%

%

Abrialone

Tempor, fragilità

TR-TEST TR 10

TR-TEST TR 50

Compression set

Compression set

Compression set

Compression set

Tension set

Ceneri

Abrasion

2 h a 850°C

Brittleness Point

TR-Test

TR-Test

22 h a 100 °C

70 h a 100 °C

70 h a 125 °C

22 h a 100 °C

22 h a 100 °C

| Invecchilameniu Aniblenie ARIA | Metado ASTM | h °C | | Durezzá Delta % (H) | | Carico rottora Delta % (CR) | | Akingamento Rotiura Dèlta % (AR) | | Volume Delta % | | Peso Delta % |
|--------------------------------------|----------------|------|---|---------------------------|--------|-----------------------------------|--------|--|--|-------------------|--------|---|
| | | | The local division of | Req. | Tested | Req. | Tested | Reg. | Tested | Reg | | (1) |
| | D \$73 | 70 | 100 | | .+7 | | +8.5 | * | and the second designed and th | ret | Tested | Tested |
| ARIA | D 573 | 24 | 100 | | 1.1 | | | | - 30 | | | 1 <u></u> |
| OLIO ASTM Nº1 | D 471 | 70 | 100 | | +1.5 | | ting | 3. | | · · · | | |
| OLIO ASTM Nº2 | D 471 | 70 | 100 | | | | -6 | | -22 | i | -2.9 | |
| OLIO ASTM Nº3 | D 471 | 70 | 100 | | -7 | | | | | | | |
| ACQUA DIST. | D 471 | 70 | 100 | | | | -6 | | - 23 | 1 | +11 | |
| ASTM FUEL A | D 471 | 70 | 23 | | | <u></u> | | | | | | |
| ASTM FUEL B | D 471 | 70 | 23 | | | | | | |] | | and the second se |
| GASOLIO . | D.471 | 46 | 23 | | | | | | |] | | |
| PENTANO | D 471 | 24 | 23 | | | | | · | | | | |



ISO 4662

ADTM D 1630

ASTM D 2137/A

ASTM D 1329

ASTM D 1329

ASTM D 395 8

ASTM D 395 B

ASTM D 395 B

DIN 53517/A

ASTM D 412

ASTM D 297