



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,



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:

1. This resin meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA – *Food and Drugs 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.
4. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
5. 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 contact food except for articles used for packing or holding food during cooking.	21 CFR 176.170(c), Table 1 All Food Types	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.

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
Amartin@techmerpm.com

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



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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:

PM44221 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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Sincerely,

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Regulatory Product Specialist
Amartin@techmerpm.com

cc: Carol Royal

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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:

PM63799 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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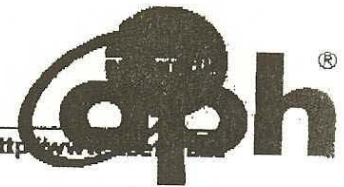
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California Georgia Kansas Illinois Ohio Tennessee



Alwin Höfert Fabrikation von Spezialdichtungen



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Dichtungspartner Hamburg GmbH

Konformitätsbescheinigung

hiermit bestätigen wir, dass

unserer Werkstoff:

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

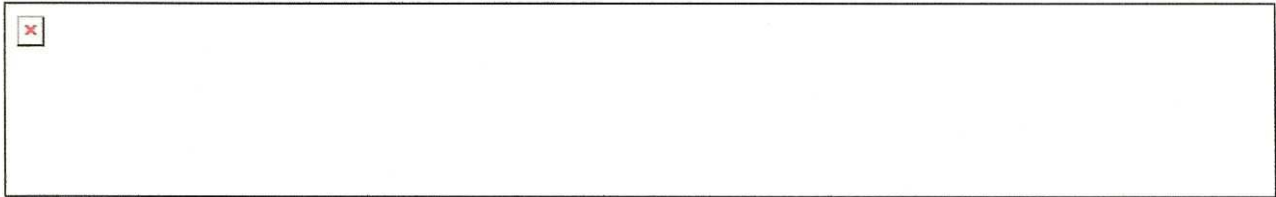
Den CFR (Code of Federal Regulations) der Nara (National Archives and Records Administration) Nr. 21, zuständig für Inhaltsstoffe in Gummiartikeln der US FDA (Food and Drug Administration) §177.2600 bezüglich deren dort aufgeführten Inhaltsstoffe und geforderter Verarbeitung erfüllt.



wir sind zertifiziert nach DIN ISO 9001

Di. 19. November 2002

dieses ist ein elektronisch erstelltes Dokument und ohne Unterschrift gültig

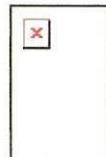


Konformitätsbescheinigung

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.



wir sind zertifiziert nach DIN ISO 9001

Mod. 052 - Rev.01

Miscola:

Codice: 01/AE70 NBR

Durezza Sh. A	70	Colore	Ral 3020	Lotto N°
Elastomero	Nitrile	Abbreviazione:	NBR	Data:

Vulcanizzazione Provette

Placche da 2 mm di Spessore : 20 Minuti a 160 °C
 Placche da 6 mm di Spessore :
 Tottoli spessore 12.5 mm 50 Minuti a 160° C
 Altri Provini :

Post - Curing :

Parametri	Properties	Unità di misura Unit	Valori riscontrati Tested Values	Valori Richiesti Required values	Metodo di Prova Test method
Durezza	Hardness	Shore A	69	70 ± 5	ASTM D 2240
Densità	Specific gravity	G/cm ³	1.274	1.27 ± 0.03	ASTM D 1817
Carico Rottura	Tensile Strength	N/mm ²	9.2		ASTM D 412 C
Allungamento Rottura	Elongation	%	353		ASTM D 412 C
Modulo al 100 %		N/mm ²			ASTM D 412 C
Lacerazione	Tear Resistance	N/mm	29		ASTM D 624 C
Resa Elastica	Rebound	%	24		ISO 4662
Abrasionc	Abrasion	Gm/m ³			ADTM D 1630
Ceneti	2 h a 850°C	%			ASTM D 297

Temper. fragilità	Brittleness Point	°C			ASTM D 2137/A
TR - TEST TR 10	TR-Test	°C			ASTM D 1329
TR - TEST TR 50	TR-Test	°C			ASTM D 1329

Compression set	22 h a 100 °C	%			ASTM D 395 B
Compression set	70 h a 100 °C	%	29		ASTM D 395 B
Compression set	70 h a 125 °C	%			ASTM D 395 B
Compression set	22 h a 100 °C	%			DIN 53517/A
Tension set	22 h a 100 °C	%			ASTM D 412

Variazione delle caratteristiche

Invecchiamento	Metodo ASTM	h	°C	Durezza Delta % (E)		Carico rottura Delta % (CR)		Allungamento Rottura Delta % (AR)		Volume Delta % (V)		Peso Delta % (P)
				Req.	Tested	Req.	Tested	Req.	Tested	Req.	Tested	Tested
Ambiente												
ARIA	D 573	70	100		+7		+8.5		-30			
ARIA	D 573	24	100									
OLIO ASTM N°1	D 471	70	100		+1.5		-6		-22		-2.9	
OLIO ASTM N°2	D 471	70	100									
OLIO ASTM N°3	D 471	70	100		-7		-6		-23		+11	
ACQUA DIST.	D 471	70	100									
ASTM FUEL A	D 471	70	23									
ASTM FUEL B	D 471	70	23									
GASOLIO	D 471	46	23									
PENTANO	D 471	24	23									

