

Monprene® OM-10165

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene OM-10165 is a specialty thermoplastic elastomer, available in NAT, BLK, and colors, designed for overmolding applications like grips and anti-skid parts for a variety of consumer and industrial products. Monprene OM-10165 is a medium hardness, low density opaque grade that exhibits excellent adhesion to nylon.

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	 Abrasion Resistant Bondability Chemical Resistant Chemically Coupled Good Adhesion Good Colorability 	 Good Moldability Good Toughness Low Density Low Specific Gravity Medium Flow Medium Hardness 	SlipSoftSunlight ResistantWeather ResistantWithout Fillers
Uses	AppliancesBondingCell PhonesFlexible Grips	 Handles Industrial Applications Knobs Overmolding	Power/Other ToolsRubber ReplacementSporting GoodsWriting Instruments
RoHS Compliance	 RoHS Compliant 		
Appearance	BlackColors Available	 Grey Natural Color	• Opaque
Forms	• Pellets		
Processing Method	 Injection Molding 		

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	0.920		ASTM D792		
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress ²			ASTM D412		
Across Flow: 100% Strain	337	psi			
Flow: 100% Strain	441	psi			
Tensile Stress ²			ASTM D412		
Across Flow: 300% Strain	533	psi			
Flow: 300% Strain	697	psi			
Tensile Strength ²			ASTM D412		
Across Flow : Break	771	psi			
Flow : Break	798	psi			
Tensile Elongation ²			ASTM D412		
Across Flow : Break	520	% -112	公司 101 104 12		
Flow: Break	440	%技有的	吸分销商		
Tear Strength ²	"人故是人父	不是佩斯	58958 ASTM D624		
Across Flow	167	Wof/ina语:			
Flow	LIBOR APPART	lbf/in			
Compression Set ³ (73°F, 22 hr)	520 440 440 440 TEKNOR APE 16彩 TEKNOR APE 16彩 teknorapex.shsh 175	%	ASTM D395B		
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Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore A, 1 sec, Injection Molded	67	
Shore A, 5 sec, Injection Molded	65	
Additional Information	Nominal Value Unit	
Adhesion to Nylon		

Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information			
Nominal Value	Unit		
400 to 450	°F		
440 to 480	°F		
480 to 510	°F		
510 to 530	°F		
510 to 530	°F		
75 to 140	°F		
200 to 1000	psi		
Fast			
25.0 to 125	psi		
50 to 120	rpm		
0.150 to 1.00	in		
	Nominal Value 400 to 450 440 to 480 480 to 510 510 to 530 510 to 530 75 to 140 200 to 1000		

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

For any overmolding process it is recommended that the process temperatures for the TPE material be set at least 50°F (10°C)than the melt temperature of the substrate material.

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C, 20 in/min

³ Type 1

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