Monprene® OM-10240

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

General

Monprene OM-10240 is a specialty thermoplastic elastomer, available in NAT, BLK, and colors, designed for overmolding applications like grips and anti-skid parts for consumer and industrial products. Monprene OM-10240 is a low hardness, medium density, UV stabilized, opaque grade that exhibits excellent adhesion to PC, ABS, and PC/ABS.

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Good AdhesionLight StabilizedLow FlowLow Hardness	 Lubricated Medium Density Slip Sunlight Resistant 	UV ResistantWithout Fillers
Uses	 Appliances Bonding Cell Phones Dental Applications Flexible Grips 	 Handles Knobs Overmolding Power/Other Tools Rubber Replacement 	Sporting GoodsToothbrush HandlesWriting Instruments
RoHS Compliance	RoHS Compliant		
Appearance	Black	• Grey	Opaque
Forms	Pellets		
Processing Method	Injection Molding	Multi Injection Molding	

ASTM	& ISO Properties ¹		ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method				
Specific Gravity	0.980		ASTM D792				
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238				
Elastomers	Nominal Value	Unit	Test Method				
Tensile Stress ²			ASTM D412				
Across Flow : 100% Strain	214	psi					
Flow : 100% Strain	233	psi					
Tensile Stress ²			ASTM D412				
Across Flow : 300% Strain	459	psi					
Flow : 300% Strain	495	psi					
Tensile Strength ²			ASTM D412				
Across Flow : Break	751	psi					
Flow : Break	701	psi					
Tensile Elongation ²			ASTM D412				
Across Flow : Break	470	%					
Flow : Break	450	%					
Tear Strength ²		市限	ASTM D624				
Across Flow	125	ubt/in	及分销19				
Flow	林 把 22	lbf/ing 10,21-	58950				
Compression Set ³	470 450 125 125 125 125 125 125 125 125 125 125	的联系电话:	ASTM D395B				
73°F, 22 hr	NOR APPhilips	%					
158°F, 22 hr	TEKITOPAPEX.SIL 80	%					
	ter						

Revision Date: 6/1/2016

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 purchasers assume 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 by others. There is no warranty of merchantability and there are no other warranties for the products described.

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Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore A, 1 sec	35	
Shore A, 1 sec, Injection Molded ⁴	43	
Shore A, 5 sec, Injection Molded ⁴	40	
Additional Information	Nominal Value Unit	
Adhesion to ABS		
Adhesion to PC		
Adhesion to PC/ABS		
agal Statement		

Legal Statement

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Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	140	°F	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	280 to 320	°F	
Middle Temperature	360 to 390	°F	
Front Temperature	360 to 390	°F	
Nozzle Temperature	380 to 410	°F	
Processing (Melt) Temp	350 to 390	°F	
Mold Temperature	40 to 90	°F	
Injection Pressure	200 to 800	psi	
Back Pressure	25.0 to 125	psi	
Screw Speed	50 to 100	rpm	
Cushion	0.150 to 1.00	in	

Injection Notes

Moisture can degrade the material. Drying is suggested. This can be accomplished by placing the material in a desiccant dryer for 2 to 4 hours at 140°F.

Notes

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

² Die C, 20 in/min

³ Type 1

⁴ Aged for 48 hr

Teknor Apex Company Corporate Headquarters

505 Central Avenue

Phone: 401-725-8000

Fax: 401-725-8095

In U.S. for Vinyls, TPEs, Colorants,

Pawtucket, Rhode Island 02861 U.S.

Toll Free (U.S. only) 800-556-3864

Engineered Thermoplastics (Chem Polymer)

Teknor Apex U.K. Ltd.

Tat Bank Road Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100 Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk



info@teknorapex.com

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