

Monprene® PC-12235

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

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Product Description

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Monprene PC-12235 is a high performance thermoplastic elastomer, available in NAT and colors, designed for a variety of personal care consumer product applications requiring a soft, rubber-like feel. Monprene PC-12235 is a low hardness, low density, high flow grade designed for injection molding.

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	Chemical ResistantGood AdhesionGood ColorabilityGood Flexibility	Good Mold ReleaseGood MoldabilityGood ProcessabilityHalogen Free	 High Flow Low Density Low Hardness Resilient
Uses	Consumer ApplicationsFlexible GripsGaskets	 Handles Overmolding Profiles	Rubber ReplacementSoft Touch ApplicationsToothbrush Handles
Agency Ratings	 FDA Unspecified Rating 		
RoHS Compliance	RoHS Compliant		
Appearance	Blue Light Blue	Natural ColorOrange	PinkTranslucent
Forms	• Pellets		
Processing Method	 Extrusion 	Injection Molding	

AST	M & ISO Properties 1		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.893		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow: 100% Strain	123	psi	
Flow: 100% Strain	208	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	667	psi	
Flow: Break	622	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	770	%	
Flow : Break	730	%	
Tear Strength ²			ASTM D624
Across Flow	111	lbf/in	
Flow	129	lbf/in	
Compression Set ³		北右限2	ASTM D395
73°F, 22 hr	19	科技工作	3958519
158°F, 22 hr	99	多尔爱师 021-5	
Hardness	Nominat Value	Unit	Test Method
Durometer Hardness	111 129 Nominat Value TEKNOR apex. shshshr		ASTM D2240
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Revision Date: 6/1/2016

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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			
njection	Nominal Value	Unit	
Rear Temperature	360 to 450	°F	
Middle Temperature	370 to 460	°F	
Front Temperature	380 to 470	°F	
Nozzle Temperature	390 to 480	°F	
Processing (Melt) Temp	390 to 480	°F	
Mold Temperature	60 to 90	°F	
Injection Pressure	200 to 800	psi	
Injection Rate	Fast		
Back Pressure	25.0 to 100	psi	
Screw Speed	50 to 100	rpm	
Cushion	0.150 to 1.00	in	

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

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	360 to 450 °F
Cylinder Zone 2 Temp.	370 to 460 °F
Cylinder Zone 3 Temp.	380 to 470 °F
Cylinder Zone 4 Temp.	380 to 470 °F
Cylinder Zone 5 Temp.	390 to 480 °F
Die Temperature	390 to 480 °F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Die C, 20 in/min

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³ Type 1