

Product Description

Processing Method

Monprene® CP-37180

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

Monprene CP-37180 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-37180 is a lubricated, high hardness grade suitable for both injection molding and extrusion. General								
					Material Status	 Commercial: Active 		
					Availability	 Africa & Middle East 	• Europe	North America
 Asia Pacific 	 Latin America 	North America						
	• Filled	 High Specific Gravity 						
Features	 High Density 	 Lubricated 	• Slip					
	 High Hardness 	 Medium Flow 						

· Injection Molding

General Information

· Consumer Applications Kitchenware · Toothbrush Handles · Safety Equipment Gaskets Uses · Writing Instruments Handles · Sporting Goods **RoHS Compliance** · RoHS Compliant Opaque Appearance Forms · Pellets

Extrusion

ASTM & ISO Properties 1 **Physical** Nominal Value Unit **Test Method** 1.14 ASTM D792 Specific Gravity Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 16 g/10 min ASTM D1238 Elastomers Nominal Value Unit **Test Method** Tensile Stress² ASTM D412 Across Flow: 100% Strain 467 psi Flow: 100% Strain 606 psi Tensile Stress² ASTM D412 Across Flow: 300% Strain 467 psi Flow: 300% Strain 745 psi ASTM D412 Tensile Strength² Across Flow: Break 1640 psi Flow: Break 1420 psi ASTM D412 Tensile Elongation 2 Across Flow: Break 760 % Flow: Break 680 % ASTM D624 Tear Strength² Across Flow 221 lbf/in Flow 236 lbf/in STM D395B Compression Set 3 Nominal Value Unit 73°F, 22 hr 158°F, 22 hr

Hardness Test Method TEKNOR AP teknorapex.shshsj.co ASTM D2240 **Durometer Hardness** Shore A, 1 sec, Injection Molded Shore A, 5 sec, Injection Molded

Revision Date: 6/1/2016

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Legal Statement

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Processing Information			
Nominal Value Un	nit		
360 to 450 °F	=		
370 to 460 °F	-		
380 to 470 °F	-		
390 to 480 °F	:		
390 to 480 °F	-		
95 to 120 °F	-		
200 to 800 psi	și		
Fast			
25.0 to 100 psi	și		
50 to 100 rpn	m		
0.150 to 1.00 in			
	Nominal Value Un 360 to 450 °F 370 to 460 °F 380 to 470 °F 390 to 480 °F 390 to 480 °F 95 to 120 °F 200 to 800 ps Fast 25.0 to 100 ps 50 to 100 rp		

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.	390 to 480 °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