

Teknor Apex Monprene® MP-1580 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Uses: Closures; Consumer Applications; Gaskets; Handles; Kitchenware; Medical/Healthcare Applications; Packaging; Safety Equipment; Sporting Goods; Toothbrush Handles; Tubing; Writing Instruments Forms: Pellets Processing Method: Extrusion; Injection Molding

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

Fast Extrusion Notes: Screw Speed: 30 to 100 rpm Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Monprene-MP-1580-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.880 g/cc	0.880 g/cc	ASTM D792
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM D955
Melt Flow	1.00 g/10 min @Load 5.00 kg, Temperature 200 °C	1.00 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	ASTM D2240
Tensile Strength at Break	8.27 MPa	1200 psi	ASTM D412
Tensile Stress	2.07 MPa @Strain 300 %	300 psi @Strain 300 %	ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
Compression Set	20 % @Temperature 22.8 °C, Time 79200 sec	20 % @Temperature 73.0 °F, Time 22.0 hour	ASTM D395
	60 % @Temperature 70.0 °C, Time 79200 sec	60 % @Temperature 158 °F, Time 22.0 hour	ASTM D395

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 232 °C	360 - 450 °F	
Middle Barrel Temperature	188 - 238 °C	370 - 460 °F	
Front Barrel Temperature	193 - 243 °C	380 - 470 °F	

Processing Properties	Metric	English	Comments
Nozzle Temperature	193 - 249 Å°C	380 - 480 Å°F	
Zone 1	182 - 232 Å°C	360 - 450 Å°F	
Zone 2	188 - 238 Å°C	370 - 460 Å°F	
Zone 3	193 - 243 Å°C	380 - 470 Å°F	
Zone 5	199 - 249 Å°C	390 - 480 Å°F	
Die Temperature	199 - 249 Å°C	390 - 480 Å°F	
Melt Temperature	199 - 249 Å°C	390 - 480 Å°F	Processing Temperature
Mold Temperature	35.0 - 48.9 Å°C	95.0 - 120 Å°F	
Injection Pressure	1.38 - 5.52 MPa	200 - 800 psi	
Back Pressure	0.172 - 0.689 MPa	25.0 - 100 psi	
Cushion	0.381 - 2.54 cm	0.150 - 1.00 in	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

Descriptive Properties	Value	Comments
Appearance	Clear/Transparent	

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