

Teknor Apex Monprene® MP-1351J Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Uses: Consumer Applications; Gaskets; Plumbing Parts; Pump Parts 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-1351J-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Melt Flow	5.00 g/10 min	5.00 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	1 second, 0.250 inches; ASTM D2240
Tensile Strength at Break	4.14 MPa	600 psi	20 in/min; ASTM D412
Tensile Stress	2.62 MPa	380 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	550 %	550 %	ASTM D412
Compression Set	16 %	16 %	ASTM D395B
	@Temperature 22.8 °C, Time 86400 sec	@Temperature 73.0 °F, Time 24.0 hour	

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	
Nozzle Temperature	199 - 249 °C	390 - 480 °F	
Zone 1	182 - 232 °C	360 - 450 °F	
Zone 2	188 - 238 °C	370 - 460 °F	
Zone 3	193 - 243 °C	380 - 470 °F	

Processing Properties	Metric249 Â°C	English390 Â°F	Comments
Die Temperature	199 - 249 Â°C	390 - 480 Â°F	
Melt Temperature	199 - 249 Â°C	390 - 480 Â°F	Processing Temperature
Mold Temperature	35.0 - 48.9 Â°C	95.0 - 120 Â°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	Opaque	

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