

Teknor Apex Telcar® TL-1402G Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Notes: Non-halogenated, Flame Retardant TPE; RoHS Compliant Uses: Connectors; Electrical/Electronic Applications Forms: Pellets

Processing Method: Extrusion; Injection Molding Injection Notes: Injection Rate: Moderate-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-Telcar-TL-1402G-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Melt Flow	7.00 g/10 min @Load 5.00 kg, Temperature 200 °C	7.00 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53	53	ASTM D2240
Tensile Strength at Break	4.27 MPa	620 psi	ASTM D412
Elongation at Break	700 %	700 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-51.0 °C	-59.8 °F	ASTM D746
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Oxygen Index	28 % @Thickness 3.17 mm	28 % @Thickness 0.125 in	ASTM D2863

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 193 °C	340 - 380 °F	
Middle Barrel Temperature	177 - 199 °C	350 - 390 °F	
Front Barrel Temperature	182 - 204 °C	360 - 400 °F	
Nozzle Temperature	188 - 210 °C	370 - 410 °F	
Zone 1	193 - 210 °C	380 - 410 °F	

Zone 2 Processing Properties	199 - 216 °C Metric	390 - 420 °F English	Comments
Zone 3	213 - 221 °C	415 - 430 °F	
Zone 5	221 - 227 °C	430 - 440 °F	
Die Temperature	221 - 229 °C	430 - 445 °F	
Melt Temperature	188 - 210 °C	370 - 410 °F	Processing Temperature
Mold Temperature	25.0 - 65.6 °C	77.0 - 150 °F	
Injection Pressure	1.38 - 6.89 MPa	200 - 1000 psi	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 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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