

Teknor Apex Telcar® TL-1686D Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Uses: Automotive Applications; Automotive Exterior Parts; Automotive Exterior Trim; Automotive Interior Parts; Blow Molding Applications;

General Purpose; Grommets; Weatherstripping Forms: Pellets Processing Method: Extrusion; Injection Molding Injection Notes: Injection

Rate: Moderate-Fast Extrusion Notes: Screw Speed: 30 to 100 rpmInformation Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Telcar-TL-1686D-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Melt Flow	25.0 g/10 min	25.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	51	51	1 second; ASTM D2240
Tensile Strength at Break	4.14 MPa	600 psi	20 in/min; ASTM D412
Elongation at Break	500 %	500 %	20 in/min; ASTM D412

Thermal Properties	Metric	English	Comments
Oxygen Index	22 %	22 %	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	166 - 188 °C	330 - 370 °F	
Zone 2	171 - 193 °C	340 - 380 °F	
Zone 3	177 - 199 °C	350 - 390 °F	
Zone 5	182 - 204 °C	360 - 400 °F	
Die Temperature	190 - 210 °C	374 - 410 °F	

Processing Properties	Metric ^{10 °C}	English ^{10 °F}	Comments ^{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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