

Teknor Apex Telcar® TL-1522E 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 rpm Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Telcar-TL-1522E-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ASTM D955
Melt Flow	21.0 g/10 min	21.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	54.0 g/10 min	54.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	ASTM D2240
Tensile Strength at Break	5.31 MPa	770 psi	ASTM D412
Tensile Stress	1.17 MPa	170 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
	1.93 MPa	280 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	790 %	790 %	ASTM D412
Tear Strength	19.3 kN/m	110 pli	Die C; ASTM D624
Compression Set	32 %	32 %	ASTM D395B
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	
	67 %	67 %	ASTM D395B
	@Temperature 70.0 °C,	@Temperature 158 °F,	

Mechanical Properties	Time 79200 sec Metric	Time 22.0 hour English	Comments
	88 %	88 %	
	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	ASTM D395B

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.60e+14 ohm-cm	1.60e+14 ohm-cm	ASTM D257
	@Temperature 50.0 °C	@Temperature 122 °F	
	1.60e+16 ohm-cm	1.60e+16 ohm-cm	ASTM D257
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Dielectric Strength	37.4 kV/mm	950 kV/in	ASTM D419

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	
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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