

## Teknor Apex Telcar® TL-1522B 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-1522B-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Telcar-TL-1522B-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Melt Flow	85.0 g/10 min	85.0 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	40	40	ASTM D2240
Tensile Strength at Break	3.45 MPa	500 psi	ASTM D412
Tensile Stress	1.38 MPa	200 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	2.14 MPa	310 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Tear Strength	12.4 kN/m	70.8 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	1610	1610	1000g, H-18 Wheel
	2130	2130	1000g, H-22 Wheel
Compression Set	25 %	25 %	ASTM D395B
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	
	72 %	72 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395B
	97 %	97 %	ASTM D395B
@Temperature 100 °C,	@Temperature 212 °F,		

Mechanical Properties	Time 79200 sec Metric	Time 22.0 hour English	Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Volume Resistivity	6.20e+13 ohm-cm @Temperature 50.0 °C	6.20e+13 ohm-cm @Temperature 122 °F	ASTM D257
	6.20e+15 ohm-cm @Temperature 22.8 °C	6.20e+15 ohm-cm @Temperature 73.0 °F	ASTM D257
Dielectric Strength	31.5 kV/mm	800 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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