

Teknor Apex Telcar® TL-1000-105 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-1000-105-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM D792
Melt Flow	3.00 g/10 min	3.00 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 D	55	55	ASTM D2240
Tensile Strength at Break	20.7 MPa	3000 psi	ASTM D412
Tensile Stress	12.5 MPa	1820 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	700 %	700 %	ASTM D412
Flexural Modulus	0.379 GPa	55.0 ksi	ASTM D790
Tear Strength	127 kN/m	725 pli	Die C; ASTM D624
Compression Set	45 %	45 %	ASTM D395
	@Temperature 22.8 °C, Time 79200 sec	@Temperature 73.0 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-55.0 °C	-67.0 °F	ASTM D746

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	

Processing Properties	Metric ^{100-210 °C}	English ^{275-410 °F}	Comments
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	Translucent	

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