

Teknor Apex Telcar® TL-1000-92 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 Automotive Specifications: Chrysler MS-DB590 CPN4660; Ford WSB-M4D734-AForms: 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-1000-92-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM D792
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D955
	0.013 cm/cm	0.013 in/in	ASTM D955
Melt Flow	2.00 g/10 min	2.00 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 A	95	95	15 seconds; ASTM D2240
Hardness, Shore D	42	42	10 seconds; ASTM D2240
Tensile Stress	8.41 MPa	1220 psi	2.0 in/min; ASTM D412
	@Strain 100 %	@Strain 100 %	
	8.55 MPa	1240 psi	2.0 in/min; ASTM D412
	@Strain 300 %	@Strain 300 %	
Tensile Strength, Yield	7.58 MPa	1100 psi	Type 1, 20 in/min; ASTM D638
	10.3 MPa	1490 psi	2.0 in/min; ASTM D638
Elongation at Break	140 %	140 %	Type 1, 20 in/min; ASTM D412
	550 %	550 %	2.0 in/min; ASTM D412
Elongation at Yield	16 %	16 %	Type 1, 20 in/min; ASTM D638
Flexural Modulus	0.290 GPa	42.1 ksi	ASTM D790
Poissons Ratio	0.337	0.337	ASTM D638

Mechanical Properties	Metric	English	Comments
	0.363	0.363	ASTM D638
	@Temperature 85.0 °C	@Temperature 185 °F	
	0.419	0.419	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	NB	NB	ASTM D624
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Gardner Impact	33.9 J	25.0 ft-lb	ASTM D3029
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	470 kJ/m ²	224 ft-lb/in ²	ASTM D1822
Tear Strength	63.8 kN/m	364 pli	Die C; ASTM D1004

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	119 µm/m-°C	66.0 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	117 µm/m-°C	65.0 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	62.8 °C	145 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	40.6 °C	105 °F	Unannealed; ASTM D648
Glass Transition Temp, Tg	-55.9 °C	-68.6 °F	DSC

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 Processing Properties	182 - 204 °C Metric	360 - 400 °F English	Comments
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	

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