

Teknor Apex Telcar® TL-2696A Thermoplastic Elastomer

Category : Polymer , Thermoplastic , TPO

Material Notes:

Uses: Cell Phones; Consumer Applications; General Purpose; Handles; Toys 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-2696A-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.890 g/cc	0.890 g/cc	ASTM D792
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	10.0 g/10 min @Load 5.00 kg, Temperature 200 °C	10.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	1 second; ASTM D2240
Tensile Strength at Break	29.0 MPa	4200 psi	ASTM D412
Tensile Stress	13.1 MPa @Strain 300 %	1900 psi @Strain 300 %	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412

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 Processing Properties	188 - 210 °C Metric	370 - 410 °F English	Processing Temperature Comments
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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