

Teknor Apex Telcar® TL-8431 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Vinyl (PVC) , PVC, Wire and Cable Grade

Material Notes:

Notes: RoHS Compliant Uses: Appliance Wire Insulation; Appliance Wire Jacketing; Cable Jacketing; Connectors; Flexible Cord Jacketing; Electrical/Electronic Applications; Industrial Cable Jacketing; Terminal Cable Jacketing; Underground Power Cable; Wire and Cable Applications; Wire Jacketing Wire Types: SJEOW Agency Ratings: UL 1581; QMTT2.E73402 Forms: Pellets Processing Method: Extrusion; Injection Molding Injection Notes: Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C); 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-8431-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.930 g/cc	0.930 g/cc	ASTM D792
Melt Flow	2.00 g/10 min	2.00 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	69	69	ASTM D2240
Tensile Strength at Break	19.3 MPa	2800 psi	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 °C	221 °F	Continuous Use
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746
Oxygen Index	18 %	18 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.1	2.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 - 216 °C	390 - 420 °F	
Middle Barrel Temperature	213 - 221 °C	415 - 430 °F	

Front Barrel Temperature Processing Properties	221 - 227 °C Metric	430 - 440 °F English	Comments
Nozzle Temperature	221 - 229 °C	430 - 445 °F	
Zone 1	193 - 210 °C	380 - 410 °F	
Zone 2	199 - 216 °C	390 - 420 °F	
Zone 3	213 - 221 °C	415 - 430 °F	
Zone 5	221 - 227 °C	430 - 440 °F	
Die Temperature	221 - 229 °C	430 - 445 °F	
Melt Temperature	221 - 229 °C	430 - 445 °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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