

Teknor Apex APEX[®] 1003 Polyvinyl Chloride, Flexible

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

Material Notes:

Notes: 60°C General Purpose; RoHS Compliant Uses: Connectors; Grommets; Plugs; Strain Reliefs
 Forms: Pellets Processing Method: Injection Molding Agency Ratings: UL QMFZ2 .E54709 Wire Types: Molded Components Additional Information: Temperature Rating: 60°C
 Recognized Component, CSA C22.2 No. 0.6, CSA Flammability Classification: 0.6HB at 0.88mm Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-APEX-1003-Polyvinyl-Chloride-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	10 seconds; ASTM D2240
Tensile Strength at Break	11.7 MPa	1700 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	60.0 °C	140 °F	Continuous Use; ASTM D794
Brittleness Temperature	-35.0 °C	-31.0 °F	ASTM D746
UL RTI, Electrical	90.0 °C	194 °F	UL 746
	@Thickness 0.889 mm	@Thickness 0.0350 in	
	90.0 °C	194 °F	
UL RTI, Mechanical without Impact	80.0 °C	176 °F	UL 746
	@Thickness 0.889 mm	@Thickness 0.0350 in	
	90.0 °C	194 °F	
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746
	@Thickness 1.40 mm	@Thickness 0.0551 in	
	90.0 °C	194 °F	
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
	90.0 °C	194 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.889 mm	@Thickness 0.0350 in	
	HB	HB	
	@Thickness 1.40 mm	@Thickness 0.0551 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	24 %	24 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	179 Â°C	355 Â°F	Processing Temperature

Descriptive Properties	Value	Comments
Appearance	Opaque	

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