



APEX® 1003

Teknor Apex Company - Flexible Polyvinyl Chloride

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Connectors • Grommets	• Plugs • Strain Reliefs	
Wire Types	• Molded Components		
Agency Ratings	• UL QMFZ2		
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1700	psi	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	79		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	140	°F	ASTM D794
Brittleness Temperature	-31.0	°F	ASTM D746
RTI Elec			UL 746
0.04 in	194	°F	
0.06 in	194	°F	
0.12 in	194	°F	
RTI Str			UL 746
0.04 in	176	°F	
0.06 in	194	°F	
0.12 in	194	°F	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI) (0.118 in)	PLC 0		UL 746
High Amp Arc Ignition (HAI) (0.12 in)	PLC 1		UL 746
Hot-wire Ignition (HWI) (0.12 in)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in	HB		
0.06 in	HB		
0.12 in	HB		
Oxygen Index	24	%	ASTM D2863

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Additional Information
Strain relief
Grommets
Temperature Rating: 60 °C
Recognized Component, CSA C22.2 No. 0.6, CSA Flammability Classification: 0.6HB @ 0.88 mm

Processing Information		
Injection	Nominal Value	Unit
Processing (Melt) Temp	355	°F

Notes

¹ Typical properties: these are not to be construed as specifications.