TEKNOR APEX

APEX® 4101

Teknor Apex Company - Flexible Polyvinyl Chloride

Wednesday, August 28, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Flame Retardant
Uses	• Connectors • Grommets • Plugs • Strain Reliefs • Wire & Cable Applications
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	1.36		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.012	in/in	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1590	psi	ASTM D638
Tensile Elongation (Break)	320	%	ASTM D638

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 15 sec, Hand Held	76		
Shore A, 15 sec, Operating Stand	71		

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	140	°F	ASTM D794
Brittleness Temperature	-29.2	°F	ASTM D746
RTI Elec			UL 746
0.03 in	194	°F	
0.12 in	194	°F	
RTI Str			UL 746
0.03 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 2		UL 746
Hot-wire Ignition (HWI) (0.12 in)	PLC 1		UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in	V-2		
0.12 in	V-2		
Oxygen Index	26	%	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: 0.6V-2 @ 0.86 mm

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	350	°F

Notes

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