

# APEX® 4112

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
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 <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	3100	psi	ASTM D638
Tensile Elongation (Break)	320	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore C, 10 sec)	70		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	167	°F	ASTM D794
Brittleness Temperature	-4.00	°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-0		
0.12 in	V-0		
Oxygen Index	27	%	ASTM D2863

### Additional Information

FR plugs  
Contact insulators  
Temperature Rating: 75 °C  
Recognized Component, CSA C22.2 No. 0.6, CSA Flammability Classification: V-2 @ 0.6mm thickness.

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#### Processing Information

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Injection	Nominal Value	Unit
Processing (Melt) Temp	375	°F

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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