



APEX® 4112

Teknor Apex Company - Flexible Polyvinyl Chloride

General Information

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America
Features	• Flame Retardant	• Plasticized
Uses	• Connectors • Electrical Parts	• Electrical/Electronic Applications • Plugs • Grommets
Agency Ratings	• UL 498 • UL 817	• UL 94 • UL QMFZ2
Regulatory Statement	• Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS.	
Appearance	• Colors Available	• Opaque
Forms	• Pellets	
Processing Method	• Injection Molding	• Overmolding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
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, Hand Held)	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 746B
0.03 in	194	°F	
0.06 in	194	°F	
0.12 in	194	°F	
RTI Str			UL 746B
0.03 in	194	°F	
0.06 in	194	°F	
0.12 in	194	°F	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI) (0.0319 in)	PLC 0		UL 746A
High Amp Arc Ignition (HAI)			UL 746A
0.03 in	PLC 2		
0.06 in	PLC 2		
0.12 in	PLC 2		
Hot-wire Ignition (HWI)			UL 746A
0.03 in	PLC 3		
0.06 in	PLC 2		
0.12 in	PLC 1		

APEX® 4112

Teknor Apex Company - Flexible Polyvinyl Chloride

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in		V-0	
0.06 in		V-0	
0.12 in		V-0	
Oxygen Index	27	%	ASTM D2863

Additional Information

Data Sheet Applies to Colors Listed Below:

Natural (0710651)
Black (0724545)
Black 598 (1074081)
Brown 1485 (1074232)
Grey 2638 (1071094)
Grey 2708 (0130958)
Orange 603 (0710652)
Red 1135 (1105904)
Tan 1981 (0130959)
White 1415 (1074099)
Yellow 748 (1073877)

3/20-lc

Processing Information

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

Notes

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