

APEX® 65005

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	• Communication Wire Jacketing		
Wire Types	• CL2R • CL3R	• CMR • FPLR	• MPR • OFNR
Agency Ratings	• NEC Article 725 • NEC Article 760 • NEC Article 770	• NEC Article 800 • UL 13 • UL 1424	• UL 444
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.54		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2620	psi	ASTM D638
Tensile Elongation (Break)	280	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore C	85		
Shore C, 10 sec	74		
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	167	°F	ASTM D794
Brittleness Temperature	1.40	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.3E+11	ohms·cm	ASTM D257
Dielectric Constant			ASTM D2520
1 kHz	4.90		
1 MHz	3.59		
Dissipation Factor			ASTM D150
1 kHz	0.077		
1 MHz	0.053		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	38	%	ASTM D2863

Additional Information

Cone Calorimeter @ 45 kW/m²:
Peak Heat Release Rate: 116 kW/m²
Avg. Heat Release Rate: 77 kw/m²
Total Heat Released: 80 MJ/m²
Avg. Effective Heat of Combustion: 12 MJ/kg

Notes

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