

# FIREGUARD® 910-FOB-NL1

Teknor Apex Company - Flexible Polyvinyl Chloride

Saturday, September 14, 2024

## General Information

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	• North America
Features	• Flame Retardant	• Low Smoke Emission	
Uses	• Fiber Optic Cable	• Plenum Cable Jacketing	
	• Insulation, Plenum Cable	• Plenum Fiber Optic Cable Buffer	
Agency Ratings	• UL 1651	• UL 444	• UL QMTM2
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	• Wire & Cable Extrusion		

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.60	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	17.2	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore C, 10 sec, Hand Held)	83		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	75.0	°C	ASTM D794
Brittleness Temperature	-8.00	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.65		
1 MHz	3.59		
Dissipation Factor			ASTM D150
1 kHz	0.083		
1 MHz	0.035		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	42	%	ASTM D2863

Revision Date: 5/22/2024

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### Additional Information

Dynamic Heat Stability @ 205°C, 100 RPM, 72 gr. #5 Bowl (Mins. to Decomposition) : 57..... ASTM D2538

Kayeness ACR @ 350°F, 1000 sec-1 (Pa-sec) : 290..... ASTM D3835

Cone Calorimeter @ 75 kW/m<sup>2</sup> ..... ISO5660

- Peak Heat Release Rate (kW/m<sup>2</sup>) : 111
- Average Heat Release Rate (kW/m<sup>2</sup>) : 60
- Total Heat Released (MJ/m<sup>2</sup>) : 77
- Average Heat of Combustion (MJ/kg) : 13.5
- Average Specific Extinction Area (m<sup>2</sup>/kg) : 325
- Peak Smoke (l/m) : 2.3

Data Sheet Applies to Color Listed Below:

Natural (0129825)

10/19-lc

### Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	190	°C

### Notes

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

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