

# FIREGUARD® 910A-47-NL

Teknor Apex Company - Flexible Polyvinyl Chloride

Saturday, September 14, 2024

## General Information

### General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America
Features	• Flame Retardant	• Low Smoke Emission
Uses	• Insulation, Plenum Cable	• Plenum Cable Jacketing
Agency Ratings	• UL 13 • UL 1424	• 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	1.66	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	16.8	MPa	ASTM D638
Tensile Elongation (Break)	190	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore C, 10 sec, Hand Held)	86		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	90.0	°C	ASTM D794
Brittleness Temperature	-5.00	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (50°C)	4.1E+12	ohms·cm	ASTM D257
Dielectric Constant			ASTM D150
1 kHz	4.33		
1 MHz	3.52		
Dissipation Factor			ASTM D150
1 kHz	0.052		
1 MHz	0.031		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	54	%	ASTM D2863

Revision Date: 5/22/2024

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

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### Additional Information

Dynamic Thermal Stability @ 190°C, 80 RPM, #5 Bowl (Mins. To Decomposition) : 64..... ASTM D2538

Kayeness ACR @177°C. 1000 sec-1 (Pa-sec) : 359..... ASTM D3835

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

- Peak Heat Release Rate (kW/m<sup>2</sup>) : 106
- Average Heat Release Rate (kW/m<sup>2</sup>) : 55
- Total Heat Released (MJ/m<sup>2</sup>) : 69
- Average Heat of Combustion (MJ/kg) : 10.9
- Average Specific Extinction Area (m<sup>2</sup>/kg) : 214
- Peak Smoke (l/m) : 1.43

Data Sheet Applies to Colors Listed Below:

Natural (1041672)

Blue 2003 (1094933)

White 1323 (1094932)

10/19-1c

### Processing Information

#### Extrusion

Nominal Value Unit

Melt Temperature

196 °C

#### Notes

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

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