

SMOKEGUARD™ FP 108 NATURAL

Fluoropolymer

AlphaGary

Message:

SMOKEGUARD FP 108 IS A HIGH PEFORMANCE FLUOROPOLYMER COMPOUND WITH EXCELLENT SMOKE AND FLAME PROPERTIES INTENDED FOR DEMANDING CABLE CONSTRUCTIONS.

General Information			
Features	Flame retardancy		
Uses	Cable sheath		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.77 - 2.83	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	66 - 72		ASTM D2240
Shaw D, 15 seconds	58 - 64		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	15.5	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	300	%	ASTM D412
Tear Strength (1.91 mm)	95.1	kN/m	ASTM D624
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹			UL Unspecified
136°C, 168 hr	3.0	%	UL Unspecified
158°C, 168 hr	2.0	%	UL Unspecified
Change in Ultimate Elongation in Air ²			UL Unspecified
136°C, 168 hr	34	%	UL Unspecified
158°C, 168 hr	15	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-46.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 100 MHz)	2.92		ASTM D150
Dissipation Factor (23°C, 100 MHz)	0.012		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	100	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	4.0	hr	

Cylinder Zone 1 Temp.	277 - 310	°C
Cylinder Zone 3 Temp.	277 - 310	°C
Cylinder Zone 5 Temp.	277 - 310	°C
Melt Temperature	310 - 321	°C
Extruder Screw L/D Ratio	24.0:1.0	
Extruder Screw Compression Ratio	2.5:1.0	
Drop down	6.0:1.0 to 20.0:1.0	

Extrusion instructions

Draw Down Balance = 1.0 (Neutral)Metallurgy: 17-4 PH Stainless Steel (based on cursory low output study)Screen Packs: 20-40-20

NOTE

1. Thickness: 30 mil
2. Thickness: 30 mil

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