

SMOKEGUARD™ III 1071-A NATURAL

Polyvinyl Chloride
AlphaGary

Message:

A LEAD FREE, HIGHLY FLAME RETARDED, 75°C RATED, LOW SMOKE JACKET OR INSULATION COMPOUND FOR PLENUM CABLE CONSTRUCTIONS REQUIRING REQUIRING COMPLIANCE TO UL SUBJECT 910 MODIFIED STEINER TUNNEL TEST.

General Information			
Features	Low (to no) lead content		
	Low smoke		
	Flame retardancy		
Uses	Insulating material		
	Ceiling compartment cable sheath material		
Agency Ratings	UL not rated		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55 - 1.59	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	64 - 70		ASTM D2240
Shaw D, 15 seconds	49 - 55		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.381 mm	17.2	MPa	ASTM D412
1.91 mm	15.2	MPa	ASTM D412
Tensile Elongation			ASTM D412
Fracture, 1.91mm	200	%	ASTM D412
Fracture, 0.381mm	180	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-10.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 100 MHz)	3.30		ASTM D150
Dissipation Factor (23°C, 100 MHz)	0.013		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	43	%	ASTM D2863
Smoke	5.0	%	ASTM D4100

Extruder Screw Compression Ratio	3.0:1.0	
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	149	°C
Cylinder Zone 2 Temp.	154	°C
Cylinder Zone 3 Temp.	163	°C
Cylinder Zone 4 Temp.	168	°C
Cylinder Zone 5 Temp.	168	°C
Adapter Temperature	154	°C
Melt Temperature	179 - 185	°C
Die Temperature	154	°C
Extrusion instructions		

Melt temperature is critical at temperature's above 370 degrees F foaming may occur. It may be necessary to adjust barrel temp to attain the desired melt temp. Material should be dried prior to use.

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