

SMOKEGUARD™ III 1093 NATURAL

Polyvinyl Chloride

AlphaGary

Message:

A HIGHLY FLAME RETARDED SMOKEGUARD, 75°C RATED, LEAD FREE, LOW SMOKE JACKETING COMPOUND WITH VERY GOOD ELECTRICAL PROPERIES FOR PLENUM CABLE CONSTRUCTIONS REQUIRING COMPLIANCE TO U.L. SUBJECT 910 (MODIFIED STEINER TUNNEL TEST).

General Information			
Features	Low (to no) lead content		
	Low smoke		
	Good electrical performance		
	Flame retardancy		
Uses	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	1.59 - 1.63	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	65 - 71		ASTM D2240
Shaw D, 15 seconds	53 - 59		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	-3.00	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 100 MHz)	3.33		ASTM D150
Dissipation Factor (23°C, 100 MHz)	0.012		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	51	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	

Cylinder Zone 2 Temp.	166	°C
Cylinder Zone 3 Temp.	171	°C
Cylinder Zone 4 Temp.	177	°C
Cylinder Zone 5 Temp.	177	°C
Adapter Temperature	177	°C
Melt Temperature	182 - 191	°C
Die Temperature	177	°C
Extruder Screw Compression Ratio	3.0:1.0	

Extrusion instructions

Melt temperature is critical, at elevated temperatures 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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