

SMOKEGUARD™ O 303 NATURAL

Polyolefin

AlphaGary

Message:

SMOKEGUARD O-303 IS 90C DEGREE, ZERO HALOGEN, PLENUM CABLE INSULATION SKIN COMPOUND.

General Information			
Features	Halogen-free		
Uses	Ceiling compartment cable sheath material		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45 - 1.49	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	6.7	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	62 - 68		ASTM D2240
Shaw D, 15 seconds	52 - 58		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	12.1	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	25	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (121°C, 168 hr)	5.0	%	UL Unspecified
Change in Ultimate Elongation in Air ² (121°C, 168 hr)	25	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-8.00	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant			ASTM D150
23°C, 100 MHz	3.12		ASTM D150
23°C, 350 MHz	3.12		ASTM D150
23°C, 600 MHz	3.13		ASTM D150
23°C, 1.00 GHz	3.09		ASTM D150
Dissipation Factor			ASTM D150
23°C, 100 MHz	9.0E-4		ASTM D150
23°C, 350 MHz	8.0E-4		ASTM D150
23°C, 600 MHz	1.1E-3		ASTM D150
23°C, 1.00 GHz	8.0E-4		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	35	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	171	°C	
Cylinder Zone 2 Temp.	177	°C	
Cylinder Zone 3 Temp.	182	°C	
Cylinder Zone 4 Temp.	188	°C	
Adapter Temperature	193	°C	
Melt Temperature	193 - 204	°C	
Die Temperature	193	°C	
Extrusion instructions			
Screw Design: General purpose screwScreen Pack: 40/60/40 or 40/80/40			
NOTE			
1.	Thickness: 30 mil		
2.	Thickness: 30 mil		

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