

Alpha PVC GW 2450-VW1 NAT 03 LCF

Polyvinyl Chloride

AlphaGary

Message:

A HIGH GRADE, LEAD FREE, 105C DEGREE INSULATION COMPOUND.

General Information			
Features	Flame Retardant		
	Low (to None) Lead Content		
Uses	Insulation		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31 to 1.35	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D	55 to 61		
Shore D, 15 sec	41 to 47		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.381 mm	20.0	MPa	
1.91 mm	17.2	MPa	
Tensile Elongation			ASTM D412
Break, 1.91 mm	250	%	
Break, 0.381 mm	230	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (136°C, 168 hr)	0.0	%	UL Unspecified
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-20	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-12.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	6.0E+14	ohms · cm	ASTM D257
Dielectric Constant			ASTM D150
23°C, 1 MHz	2.80		
23°C, 100 MHz	2.70		
Dissipation Factor			ASTM D150

23°C, 1 MHz	0.013		
23°C, 100 MHz	0.015		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	27	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	154	°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	174 to 179	°C	
Die Temperature	177	°C	
NOTE			
1.	Thickness: 15 mil		
2.	Thickness: 15 mil		

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