

GW series 2450-VW1 NAT 03 LCF

Alphagary - Polyvinyl Chloride

General Information

Product Description

A HIGH GRADE, LEAD FREE, 105°C RATED, FLAME RETARDED INSULATION COMPOUND

General

Additive	• Flame Retardant
Features	• Flame Retardant • Low (to None) Lead Content
Uses	• Insulation • Wire & Cable Applications
Appearance	• Natural Color
Processing Method	• Wire & Cable Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.34		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.0150 in	3000	psi	
0.0750 in	2400	psi	
Tensile Elongation			ASTM D412
Break, 0.0150 in	290	%	
Break, 0.0750 in	310	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, Instant	58		
Shore D, 15 sec	41		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ²	8.60	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ³ (277°F, 168 hr)	0.0	%	UL Unspecified
Change in Ultimate Elongation in Air ³ (277°F, 168 hr)	-22	%	UL Unspecified
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	6.0E+15	ohms·cm	ASTM D257
Dielectric Constant			ASTM D150
73°F, 1 MHz	2.80		
73°F, 100 MHz	2.75		
Dissipation Factor			ASTM D150
73°F, 1 MHz	0.013		
73°F, 100 MHz	0.012		
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (0.125 in)	28	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	380	°F