

# SMOKEGUARD III 1041 NATURAL B

## Alphagary - Polyvinyl Chloride

### General Information

#### Product Description

A LEAD FREE, 90°C RATED, FLAME RETARDED COMPOUND INTENDED FOR PLENUM FIBER OPTIC APPLICATIONS.

#### General

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

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.60		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.0150 in	2400	psi	
0.0750 in	2100	psi	
Tensile Elongation			ASTM D412
Break, 0.0150 in	180	%	
Break, 0.0750 in	200	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, Instant	70		
Shore D, 15 sec	57		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>2</sup>	26.6	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air <sup>3</sup>			UL Unspecified
212°F, 240 hr	-1.0	%	
250°F, 168 hr	-2.0	%	
Change in Ultimate Elongation in Air <sup>3</sup>			UL Unspecified
212°F, 240 hr	-7.0	%	
250°F, 168 hr	-21	%	
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (73°F, 100 MHz)	3.35		ASTM D150
Dissipation Factor (73°F, 100 MHz)	0.014		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.05 in)	V-0		UL 94
Oxygen Index (0.125 in)	50	%	ASTM D2863