

GARAFLEX E 4780-A5 NATURAL LCF

Alphagary - Thermoplastic Vulcanizate

General Information

Product Description

A LEAD FREE, 105°C RATED, FLEXIBLE, LOW TEMPERATURE, SEO AND STO INSULATION COMPOUND.

General

Features	<ul style="list-style-type: none"> • Good Flexibility • Low (to None) Lead Content
Uses	<ul style="list-style-type: none"> • Insulation • Wire & Cable Applications
Wire Types	<ul style="list-style-type: none"> • SEO • STO
Appearance	<ul style="list-style-type: none"> • Natural Color
Processing Method	<ul style="list-style-type: none"> • Wire & Cable Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.0400 in	2300	psi	
0.0750 in	2000	psi	
Tensile Elongation			ASTM D412
Break, 0.0400 in	330	%	
Break, 0.0750 in	350	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Instant	85		
Shore A, 15 sec	74		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ²	-34.6	°F	ASTM D746
Deformation - Retention, 1 hour (302°F, 50.0 mil)	61	%	UL 2556
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ³ (277°F, 168 hr)	17	%	UL Unspecified
Change in Ultimate Elongation in Air ³ (277°F, 168 hr)	-7.0	%	UL Unspecified
Change in Tensile Strength ³			UL Unspecified
140°F, 168 hr, in IRM 902 Oil	24	%	
Change in Ultimate Elongation ³			UL Unspecified
140°F, 168 hr, in IRM 902 Oil	-5.0	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	1.0E+13	ohms·cm	ASTM D257
Dielectric Constant (73°F, 100 MHz)	2.95		ASTM D150
Dissipation Factor (73°F, 100 MHz)	0.039		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (0.125 in)	22	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	375	°F