

Garaflex™ E 4832 NAT UV-LCF

Thermoplastic Elastomer

AlphaGary

Message:

A LEAD FREE, UV RESISTANT, FLAME RETARDED, OIL RESISTANT COMPOUND DESIGNED FOR WIND TURBINE CABLE JACKET APPLICATIONS.

General Information			
Features	Flame Retardant		
	Good UV Resistance		
	Low (to None) Lead Content		
	Oil Resistant		
Uses	Cable Jacketing		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28 to 1.32	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	80 to 86		
Shore A, 15 sec	67 to 73		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
0.762 mm	18.6	MPa	
1.91 mm	17.2	MPa	
Tensile Elongation			ASTM D412
Break, 1.91 mm	420	%	
Break, 0.762 mm	380	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (136°C, 168 hr)	3.0	%	UL Unspecified
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-16	%	UL Unspecified
Change in Tensile Strength ³			UL Unspecified
75°C, 1440 hr, in ASTM #2 Oil	13	%	
100°C, 96 hr, in ASTM #2 Oil	14	%	
121°C, 18 hr, in ASTM #2 Oil	19	%	
Change in Ultimate Elongation ⁴			UL Unspecified
75°C, 1440 hr, in ASTM #2 Oil	-4.0	%	

100°C, 96 hr, in ASTM #2 Oil	-12	%	
121°C, 18 hr, in ASTM #2 Oil	-14	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-44.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	32	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	166	°C	
Cylinder Zone 2 Temp.	171	°C	
Cylinder Zone 3 Temp.	177	°C	
Cylinder Zone 4 Temp.	182	°C	
Cylinder Zone 5 Temp.	188	°C	
Adapter Temperature	182	°C	
Melt Temperature	179 to 191	°C	
Die Temperature	182	°C	
NOTE			
1.	Thickness: 30 mil		
2.	Thickness: 30 mil		
3.	Thickness: 30 mil		
4.	Thickness: 30 mil		

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