

Garaflex™ E 4780-A5 NATURAL LCF

Thermoplastic Elastomer

AlphaGary

Message:

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

General Information			
Features	Low (to no) lead content		
	Good flexibility		
Uses	Insulating material		
Wire Types	SEO		
	STO		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23 - 1.27	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	82 - 88		ASTM D2240
Shaw A, 15 seconds	73 - 79		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (1.02 mm)	15.9	MPa	ASTM D412
Tensile Elongation (Break, 1.02 mm)	330	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (136°C, 168 hr)	17	%	UL Unspecified
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-7.0	%	UL Unspecified
Change in Tensile Strength ³ (60°C, 168 hr, in ASTM #2 Oil)	24	%	UL Unspecified
Change in Ultimate Elongation ⁴ (60°C, 168 hr, in ASTM #2 Oil)	-5.0	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-37.0	°C	ASTM D746
Deformation - retention, 1 hour (150°C, 1.27 mm)	61	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+14	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	22	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160	°C	
Cylinder Zone 2 Temp.	177	°C	
Cylinder Zone 3 Temp.	182	°C	
Cylinder Zone 4 Temp.	188	°C	
Cylinder Zone 5 Temp.	188	°C	
Adapter Temperature	182	°C	
Melt Temperature	185 - 191	°C	
Die Temperature	182	°C	

Extrusion instructions

Screw Design: Standard PVC metering screw with 3:1 compression ratio.

NOTE

1. Thickness: 40 mil
2. Thickness: 40 mil
3. Thickness: 40 mil
4. Thickness: 40 mil

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