

Garaflex™ E 89-086-C3 NAT NF LCF-R

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX E 89-086-C3 NF LCF-R IS A 105°C RATED, LEAD FREE, FLEXIBLE CORD JACKET COMPOUND.

General Information			
Features	Flame Retardant		
	Low (to None) Lead Content		
Uses	Flexible Cord Jacketing		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20 to 1.24	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	78 to 84		
Shore A, 15 sec	68 to 74		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
1.02 mm	16.5	MPa	
1.91 mm	15.2	MPa	
Tensile Elongation			ASTM D412
Break, 1.91 mm	340	%	
Break, 1.02 mm	320	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (136°C, 168 hr)	0.0	%	UL Unspecified
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-15	%	UL Unspecified
Change in Tensile Strength ³ (60°C, 168 hr, in ASTM #2 Oil)	0.0	%	UL Unspecified
Change in Ultimate Elongation ⁴ (60°C, 168 hr, in ASTM #2 Oil)	-10	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-49.0	°C	ASTM D746
Deformation - retention, 1 hour (150°C, 1.27 mm)	58	%	
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	143	°C
Cylinder Zone 2 Temp.	160	°C
Cylinder Zone 3 Temp.	166	°C
Cylinder Zone 4 Temp.	171	°C
Cylinder Zone 5 Temp.	177	°C
Adapter Temperature	177	°C
Melt Temperature	174 to 179	°C
Die Temperature	177	°C

NOTE

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

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