

Garaflex™ G 7788-A6R NATURAL

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX G 7788-A6R IS A LEAD FREE, FLAME RETARDED, OIL RESISTANT THERMOPLASTIC ELASTOMER INTENDED FOR INSULATION AND JACKETING APPLICATIONS.

General Information			
Features	Low (to no) lead content		
	Oil resistance		
	Flame retardancy		
Uses	Cable sheath		
	Wire and cable applications		
	Insulating material		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22 - 1.26	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	93 - 99		ASTM D2240
Shaw A, 15 seconds	89 - 95		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹	24.8	MPa	ASTM D412
Tensile Elongation ² (Break)	500	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ³ (136°C, 168 hr)	0.0	%	UL Unspecified
Change in Ultimate Elongation in Air ⁴ (136°C, 168 hr)	-2.0	%	UL Unspecified
Change in Tensile Strength ⁵ (60°C, 168 hr, in ASTM #2 Oil)	-8.0	%	UL Unspecified
Change in Ultimate Elongation ⁶ (60°C, 168 hr, in ASTM #2 Oil)	-4.0	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	4.0E+15	ohms · cm	ASTM D257
Dielectric Constant (23°C, 100 MHz)	2.30		ASTM D150

Dissipation Factor (23°C, 100 MHz)	5.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	25	%	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.	193	°C	
Adapter Temperature	193	°C	
Melt Temperature	193 - 204	°C	
Die Temperature	193	°C	
Extrusion instructions			

Screw Design: General Purpose Polyethylene Screw (C/R 2.5:1 > 3.5:1)Screenpack: 40/80 or 40/100

NOTE	
1.	Extruded Tape
2.	Extruded Tape
3.	Thickness: 30 mil
4.	Thickness: 30 mil
5.	Thickness: 30 mil
6.	Thickness: 30 mil

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