

Garaflex™ G 7782-A4

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX G 7782-A4 IS A THERMOPLASTIC ELASTOMER INTENDED FOR FLEXIBLE CORD (SEO, SJEO).

General Information			
Uses	cord sheath		
Wire Types	SEO		
	SJEO		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978 - 1.02	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	78 - 84		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	19.0	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	600	%	ASTM D412
Tear Strength ¹ (0.762 mm)	70.1	kN/m	ASTM D624
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ² (136°C, 168 hr)	0.0	%	UL Unspecified
Change in Ultimate Elongation in Air ³ (136°C, 168 hr)	-5.0	%	UL Unspecified
Change in Tensile Strength ⁴ (60°C, 168 hr, in ASTM #2 Oil)	-10	%	UL Unspecified
Change in Ultimate Elongation ⁵ (60°C, 168 hr, in ASTM #2 Oil)	0.0	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746
Deformation ⁶			ASTM D2219
121°C, 889.0 µm	5.5	%	ASTM D2219
150°C, 889.0 µm	8.9	%	ASTM D2219
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	9.8E+15	ohms · cm	ASTM D257
Dielectric Strength (23°C)	28	kV/mm	ASTM D149

Dielectric Constant (23°C, 1 MHz)	2.30	ASTM D150
Dissipation Factor (23°C, 1 MHz)	1.0E-4	ASTM D150
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	191	°C
Cylinder Zone 2 Temp.	196	°C
Cylinder Zone 3 Temp.	196	°C
Cylinder Zone 4 Temp.	202	°C
Adapter Temperature	204	°C
Melt Temperature	210 - 232	°C
Die Temperature	210	°C
Extrusion instructions		
Screw Design: General Purpose Polyethylene Screw (C/R 2.5:1 3.5:1)Screen Pack: 40/80 or 40/100		
NOTE		
1.	C mould	
2.	Thickness: 30 mil	
3.	Thickness: 30 mil	
4.	Thickness: 30 mil	
5.	Thickness: 30 mil	
6.	1 hr, 2000 g	

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