

Garaflex™ O 9939NA NATURAL

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX O 9939NA IS A PBB, PBBE, AND PBBO FREE, 105°C RATED, FLAME RETARDED, OLEFINIC THERMOPLASTIC ELASTOMER INTENDED FOR FLAT RIBBON CABLE PRIMARY AND HEAT TRACING CABLE.

General Information			
Features	Flame retardancy		
Uses	Cable sheath		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12 - 1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.8 - 4.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	92 - 98		ASTM D2240
Shaw A, 15 seconds	90 - 96		ASTM D2240
Shaw D	49 - 55		ASTM D2240
Shaw D, 15 seconds	38 - 44		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	9.65	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	500	%	ASTM D412
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant			ASTM D150
23°C, 1 MHz	2.38		ASTM D150
23°C, 100 MHz	2.35		ASTM D150
23°C, 1.00 GHz	2.23		ASTM D150
Dissipation Factor			ASTM D150
23°C, 1 MHz	1.0E-3		ASTM D150
23°C, 100 MHz	1.0E-3		ASTM D150
23°C, 1.00 GHz	1.7E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	27	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	182	°C	
Cylinder Zone 2 Temp.	193	°C	

Cylinder Zone 3 Temp.	199	°C
Cylinder Zone 4 Temp.	204	°C
Cylinder Zone 5 Temp.	210	°C
Adapter Temperature	210	°C
Melt Temperature	204 - 216	°C
Die Temperature	210	°C

Extrusion instructions

Screw Design: Standard olefin metering screw

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