

Garaflex™ O 9940SA NAT

Thermoplastic Elastomer

AlphaGary

Message:

GARAFLEX-O 9940SA IS A PBB, PBBE and PBBO FREE, 105°C RATED, RoHS COMPLIANT, 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	RoHS compliance		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28 - 1.32	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	48 - 54		ASTM D2240
Shaw D, 15 seconds	40 - 46		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (0.762 mm)	13.8	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	500	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ¹ (136°C, 168 hr)	5.0	%	UL Unspecified
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-9.0	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-53.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 1 MHz)	2.45		ASTM D150
Dissipation Factor (23°C, 1 MHz)	1.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.813 mm)	V-0		UL 94
Oxygen Index (3.18 mm)	30	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	188	°C	
Cylinder Zone 2 Temp.	188	°C	
Cylinder Zone 3 Temp.	199	°C	
Cylinder Zone 4 Temp.	204	°C	

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

Extrusion instructions

Screen Pack: 40/80 or 40/100

NOTE

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|----|-------------------|
| 1. | Thickness: 30 mil |
| 2. | Thickness: 30 mil |

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