

Garathane™ 9005 NATURAL

Polyurethane
AlphaGary

Message:

A FLAME RETARDED, 90C DEGREE, POLYETHER BASED POLYURETHANE COMPOUND FOR DEMANDING WIRE AND CABLE APPLICATIONS.

General Information			
Features	Flame Retardant		
Uses	Wire & Cable Applications		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23 to 1.27	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	88 to 94		
Shore A, 15 sec	86 to 92		
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance ¹			ASTM D3389
1000 Cycles, 1000 g, CS-10 Wheel	3.50	mg	
1000 Cycles, 1000 g, H-18 Wheel	6.40	mg	
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	42	%	ASTM D412
Tensile Strength (0.762 mm)	32.4	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	600	%	ASTM D412
Tear Strength ² (1.91 mm)	80.6	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	31	%	
70°C, 22 hr	65	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ³ (121°C, 168 hr)	-1.0	%	UL Unspecified
Change in Ultimate Elongation in Air ⁴ (121°C, 168 hr)	3.0	%	UL Unspecified
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-65.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.813 mm)	V-0		UL 94
Oxygen Index (3.18 mm)	29	%	ASTM D2863

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	149	°C
Cylinder Zone 2 Temp.	154	°C
Cylinder Zone 3 Temp.	160	°C
Cylinder Zone 4 Temp.	166	°C
Cylinder Zone 5 Temp.	171	°C
Adapter Temperature	171	°C
Melt Temperature	171 to 182	°C
Die Temperature	171	°C

NOTE

- | | |
|----|-------------------|
| 1. | Method B |
| 2. | Die C |
| 3. | Thickness: 30 mil |
| 4. | Thickness: 30 mil |

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