

Arlon Thermabond® 99720W015 0.015" Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

Category : Polymer , Thermoset , Silicone , Silicone, Molded, Glass Fiber Filled

Material Notes:

Design/Construction:Liner: 0.001" FEP FilmSide 1: Uncured Silicone RubberCarrier: 0.003" PTFE coated FiberglassRecommended Primer: Dow Corning S2260This data represents typical values for the production material and should not be used as material specifications.Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-Thermabond-99720W015-0015-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Carrier
	381 microns	15.0 mil	Product; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	Silicone Property; ASTM D2240
Tensile Strength	4.41 MPa	640 psi	Silicone Property; ASTM D412
Elongation at Break	15 %	15 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.0483 GPa	7.00 ksi	Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	
Shear Modulus	<= 0.000483 GPa	<= 0.0700 ksi	Arlon SQA-TMS-018
Shear Strength	2.41 MPa	350 psi	Lap; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C	25.0 µin/in-°F	ASTM E831
Specific Heat Capacity	0.760 J/g-°C	0.182 BTU/lb-°F	E1461-01
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft ² -°F	ASTM E1530
Maximum Service Temperature, Inert	204 °C	400 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	-116 °C	-177 °F	ASTM E1356

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IPC TM 650 - 2.5.5.3
Dielectric Strength	39.4 kV/mm	1000 kV/in	ASTM D149
Dissipation Factor	0.0015 @Frequency 1.00e+6 Hz	0.0015 @Frequency 1.00e+6 Hz	IPC TM 650 - 2.5.5.3

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 121 °C	0.250 hour @Temperature 250 °F	Recommended Cure Cycle; Under Pressure
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Color	White	
Thermal Resistance (°C-in ² /W)	0.5	ASTM E1530
Total Product Weight (oz/yd ²)	19	Arlon SQA-TMS-025

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