

Arlon Thermabond® R37300X008 0.008" Uncured Silicone Rubber on Fiberglass Carrier

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

Material Notes:

Primerless Thermabond®: Electrically insulating, thermally conductive, electronic adhesive. Bonds without primer. Design/Construction: Liner: 1 mil FEPP Product: Uncured Silicone Rubber Carrier: 3 mil PTFE coated fiberglass This 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-R37300X008-0008-Uncured-Silicone-Rubber-on-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	203 microns	8.00 mil	Product; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	Silicone Property; ASTM D2240
Tensile Strength	2.28 MPa	330 psi	Silicone Property; ASTM D412
Elongation at Break	170 %	170 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.00159 GPa	0.230 ksi	Silicone Property; Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	
Shear Modulus	<= 0.000345 GPa	<= 0.0500 ksi	Product Property; ASTM D1002
Shear Strength	2.07 MPa	300 psi	Lap; Product Property; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	128 µm/m-°C	71.1 µin/in-°F	Silicone Property; ASTM E831
Specific Heat Capacity	0.900 J/g-°C	0.215 BTU/lb-°F	Silicone Property; ASTM E1461-01
Thermal Conductivity	1.70 W/m-K @Temperature 100 °C	11.8 BTU-in/hr-ft ² -°F @Temperature 212 °F	Silicone Property; ASTM E1530
Maximum Service Temperature, Inert	204 °C	399 °F	
Minimum Service Temperature, Air	-100 °C	-148 °F	
Glass Transition Temp, Tg	-120 °C	-184 °F	Silicone Property; ASTM D3418

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	5.9 @Frequency 1.00e+6 Hz	5.9 @Frequency 1.00e+6 Hz	Silicone Property; IPC TM 650 - 2.5.5.3
Dielectric Strength	41.3 kV/mm	1050 kV/in	ASTM D149
Dissipation Factor	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	Silicone Property; IPC TM 650 - 2.5.5.3

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 100 °C	0.250 hour @Temperature 212 °F	Recommended Cure Cycle; After Thermabond® reaches temperature
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	
Plasticity (mm)	2.2	Arlon SQA-TMS-005
Thermal Resistance (°C-in2/W)	0.112	ASTM E1530
Total Product Weight (oz/yd2)	15.5	Arlon SQA-TMS-025

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