

Arlon Thermabond® R37260N008 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-R37260N008-0008-Uncured-Silicone-Rubber-on-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 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	50	50	Silicone Property; ASTM D2240
Tensile Strength	2.76 MPa	400 psi	Silicone Property; ASTM D412
Tensile Strength, Yield	3.45 MPa @Strain <=1.00 %	500 psi @Strain <=1.00 %	Silicone Property; Arlon SQA-TMS-008
Elongation at Break	245 %	245 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	
Shear Modulus	1.03 GPa	149 ksi	Product Property; ASTM D1002
Shear Strength	2.00 MPa	290 psi	Lap; Product Property; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	134 µm/m-°C	74.4 µin/in-°F	Silicone Property; ASTM E831
Specific Heat Capacity	0.920 J/g-°C @Temperature 100 °C	0.220 BTU/lb-°F @Temperature 212 °F	Silicone Property; ASTM E1952
Thermal Conductivity	1.00 W/m-K @Temperature 100 °C	6.94 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 Thermal Properties	- 100 °C Metric	- 148 °F English	Comments
Glass Transition Temp, Tg	- 118 °C	- 180 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.4 @Frequency 1.00e+6 Hz	5.4 @Frequency 1.00e+6 Hz	Silicone Property; IPC TM 650 - 2.5.5.3
Dielectric Strength	30.9 kV/mm	785 kV/in	ASTM D149
Dissipation Factor	0.0050 @Frequency 1.00e+6 Hz	0.0050 @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 121 °C	0.250 hour @Temperature 250 °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	Arlon SQA-TMS-005
Thermal Resistance (°C-in2/W)	0.32	ASTM E1530
Total Product Weight (oz/yd2)	14.3	Arlon SQA-TMS-025

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