

Arlon Thermabond® 48781A008 0.008" (0.203 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Description: Generation II Thermabond® NP electrically insulating electronic adhesive. Bonds without primer. Design/Construction: Liner 1: Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 1080 Fiberglass Side 2: Uncured Silicone Rubber Liner: 2 Polyethylene Product Use: Electrically insulating electronic adhesive. Bonds without primer. Appearance: Blue colored, high viscosity gum. This data represents typical values for the production material. The data should not be used to write, or in place of, material specifications. Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-Thermabond-48781A008-0008-0203-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	38.1 microns	1.50 mil	Liner 1
	38.1 microns	1.50 mil	Liner 2
	63.5 microns	2.50 mil	Side 1; Arlon SQA-TMS-003
	63.5 microns	2.50 mil	Side 2; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Substrate; Arlon SQA-TMS-003
	203 microns	8.00 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
Tensile Strength	5.17 MPa	750 psi	Silicone Property; ASTM D412
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000207 GPa	0.0300 ksi	ASTM 1002
Shear Strength	2.76 MPa	400 psi	Lap; ASTM 1002

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ASTM E 831
CTE, linear, Transverse to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ASTM E 831

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.940 J/g-°C	0.224 BTU/lb-°F	Silicone Property; E1461-01
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft²-°F	Product Property; ASTM E 1530
	0.400 W/m-K	2.78 BTU-in/hr-ft²-°F	Silicone Property; ASTM E 1530
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	<= -100 °C	<= -148 °F	Silicone Property; ASTM D3418
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	Silicon Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.5	3.5	Product Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	39.0 kV/mm	990 kV/in	ASTM D149
Dissipation Factor	0.0045	0.0045	Silicon Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.0045	0.0045	Product Property; IPC TM 650 - 2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.0689 - 0.345 MPa, Temperature 121 °C	@Pressure 10.0 - 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 4.44 - 10.0 °C	@Temperature 40.0 - 50.0 °F	

Descriptive Properties	Value	Comments
Color	Blue	
Total Product Weight (g/m2)	240	Arlon SQA-TMS-025

Descriptive Properties	Value	Comments
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