

Arlon Thermabond® 99A30N008 0.008" (0.203 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

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

Material Notes:

Description: Primerless Thermabond®: Electrically insulating, thermally conductive, electronic adhesive. Bonds without primer.
Design/Construction: Liner: FEPP
Product: Uncured Silicone Rubber Carrier: PTFE Coated Fiberglass
Product Advantages: Bond Reliability – Bonds securely regardless of substrate type, shape, or texture. Hot Spot Elimination – Thermal conductivity up to 3 W/mK to transport heat away from hot spots. Thermal-Mechanical Stress Decoupling – Low modulus and high shear strength prevent adhesive delamination. Low Temperature Cure Cycle – Thermabond® cure parameters can be as low as 100°C at 100 kPa, so surface mount components can be mounted on the PCB prior to bonding. Uniform Bond Line Thickness – Precision calendaring produces a uniform adhesive film. Proven Performance – Arlon Thermabond® adhesive products are the gold standard for critical, demanding electronic system applications.
Product Use: Electrically insulating electronic adhesive. Bonds without primer.
Appearance: Gray, High viscosity gum on fluoropolymer release liners
 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-99A30N008-0008-0203-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-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	25.4 microns	1.00 mil	Liner
	76.2 microns	3.00 mil	Carrier
	203 microns	8.00 mil	Overall; 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	Approximately, Silicone Property
Shear Modulus	0.207 GPa @Strain <=100 %	30.0 ksi @Strain <=100 %	ASTM D1002
Shear Strength	2.00 MPa	290 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	134 µm/m-°C	74.4 µin/in-°F	Silicone Property; ASTM E 831
Specific Heat Capacity	0.900 J/g-°C	0.215 BTU/lb-°F	Silicone Property; ASTM E 1952
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	1.64 W/m-K	11.4 BTU-in/hr-ft²-°F	Product Property; ASTM E 1530
	1.00 W/m-K	6.94 BTU-in/hr-ft²-°F	Silicone Property; ASTM E 1530
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	204.0 °C	399.2 °F	
Minimum Service Temperature, Air	-100 °C	-148 °F	
Glass Transition Temp, Tg	-118 °C	-180 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.4	5.4	D_k, Silicone Property; IPC TM 650-2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	30.9 kV/mm	785 kV/in	ASTM D149
Dissipation Factor	0.0050	0.0050	D_f, Silicone 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 0.101 - 0.345 MPa, Temperature 121.0 °C	@Pressure 14.6 - 50.0 psi, Temperature 249.8 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 4.00 - 10.0 °C	@Temperature 39.2 - 50.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	
Plasticity	2 mm	Arlon SQA-TMS-005
Total Product Weight (g/m2)	487	Arlon SQA-TMS-025

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China