

## Arlon Thermabond® 99A60X008 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: FEPPProduct: Uncured Silicone Rubber Carrier: PTFE Coated FiberglassProduct Use: Thermally conductive adhesiveAppearance: Gray gum on brown and clear linersThis 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-99A60X008-0008-0203-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php](http://www.lookpolymers.com/polymer_Arlon-Thermabond-99A60X008-0008-0203-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php)

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in <sup>3</sup>	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	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	Approximately, Silicone Property
Shear Modulus	0.345 GPa	50.0 ksi	ASTM D1002
	@Strain <=100 %	@Strain <=100 %	
Shear Strength	2.21 MPa	320 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	128 µm/m-°C	71.1 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			Product Property; ASTM E 1530

Thermal Properties	2.30 W/m-K Metric	16.0 BTU-in/hr-ft <sup>2</sup> -°F English	Comments
	1.40 W/m-K	9.72 BTU-in/hr-ft <sup>2</sup> -°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	-120 °C	-184 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.9	5.9	D <sub>k</sub> , Silicone Property; IPC TM 650-2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	33.5 kV/mm	850 kV/in	ASTM D149
Dissipation Factor	0.0040	0.0040	D <sub>f</sub> , 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	After Thermabond® temperature reaches 100°C, Recommended Cure Cycle
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	Gray	
Plasticity	2.2 mm	Arlon SQA-TMS-005
Total Product Weight (g/m <sup>2</sup> )	528	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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