

**PRODUCT INFORMATION SHEET**
**Arlon Product Number**

99A90X008

**PRODUCT DESCRIPTION**

Primerless Thermabond®: Electrically insulating, thermally conductive, electronic adhesive. Bonds without primer.

**Design / Construction**

**Liner:** 0.001" FEP  
**Side 1:** Uncured Silicone Rubber  
**Carrier:** 0.003" PTFE coated fiberglass

**Product Thickness**
**Value**
**Method**
**Overall Thickness:**

0.008"

Arlon SQA-TMS-003

**Product Color :** Gray

**TYPICAL PROPERTIES**

<u>Silicone Compound Properties</u>	<u>Value</u>	<u>Method</u>
<b>Tensile Strength</b> psi	365	Arlon SQA-TMS-008
<b>Elongation</b> %	28	Arlon SQA-TMS-008
<b>Poisson's Ratio</b> ---	~0.5	---
<b>Durometer</b> Shore A	87	Arlon SQA-TMS-014
<b>Plasticity</b> mm	7.2	Arlon SQA-TMS-005
<b>Specific Gravity</b> ---	1.85	Arlon SQA-TMS-024
<b>Thermal Conductivity @ 100C</b> W/m-K	3.0	Arlon SQA-TMS-022
<b>Heat Capacity @ 100C</b> J/gK	0.85	Arlon SQA-TMS-052
<b>Dielectric constant D<sub>k</sub> @ 1 MHz</b> --	4.6	IPC TM 650 - 2.5.5.3
<b>Dissipation factor D<sub>f</sub> @ 1 MHz</b> --	0.0041	IPC TM 650 - 2.5.5.3
<b>Elastic Modulus @ 1%</b> psi	9000	Arlon SQA-TMS-008
<b>Glass Transition Temperature</b> °C	- 119	Arlon SQA-TMS-055
<b>CTE (20°C - 160°C)</b> ppm/°C	52	ASTM E831
<u>Product Properties</u>	<u>Value</u>	<u>Method</u>
<b>Dielectric Strength</b> volts/mil	1228	Arlon SQA-TMS-024
<b>Lap Shear Strength</b> psi	140	Arlon SQA-TMS-018
<b>Shear Modulus up to 100% strain</b> psi	265	Arlon SQA-TMS-018
<b>Thermal Resistance (50C 3MPa)</b> m <sup>2</sup> *K/W	6E-5	Arlon SQA-TMS-054
<b>Total Product Weight</b> g/m <sup>2</sup>	376	Arlon SQA-TMS-025

**SHIPPING AND SHELF LIFE**
**Shipping Recommendation**

Arlon recommends refrigerated shipment for this product.

**Product Shelf Life**

6 months from DOM at 45°F +/- 3°F

*Note: Shelf life is defined as the duration of time for which the product will meet the physical characteristics outlined on this page.  
 It does not guarantee the product's usefulness in all applications.*

**PROCESSING RECOMMENDATIONS**
**Recommended Primers**

No primer required.

**Recommended Cure Cycle**

15 minutes @ 250°F and 0.345 MPa

**Product Operating Temperature**

-148 to 400°F

The data presented in this document represent typical values for the production material.

The data should not be used to write, or in place of, material specifications.

Please verify that any printed hard copy of this datasheet is current by referencing:

<http://www.rogerscorporation.com>