

**PRODUCT INFORMATION SHEET**
**Arlon Product Number** 99990A008  
**Customer Part Number**
**PRODUCT DESCRIPTION**

8 mil Primerless Thermabond® NP electrically insulating electronic adhesive. Bonds without primer.

**Design / Construction**
**Liner:** 1 mil FEP  
**Product:** Uncured Silicone Rubber  
**Carrier:** 3 mil PTFE coated fiberglass


<u>Product Thickness</u>	<u>Value</u>	<u>Method</u>
<b>Thickness:</b>	8 mil	Arlon SQA-TMS-003

**Product Color :** Light Blue

**PHYSICAL PROPERTIES**

<u>Silicone Compound Physical Properties</u>		<u>Value</u>	<u>Method</u>
<b>Tensile Strength</b>	psi	850	ASTM D 412
<b>Elongation</b>	%	400	ASTM D 412
<b>Poisson's Ratio</b>	---	~0.5	---
<b>Durometer</b>	Shore A Points	55	ASTM D 2240
<b>Specific Gravity</b>	---	1.45	Arlon SQA-TMS-024
<b>Thermal Conductivity</b>	W/m-K	0.4	ASTM E 1530
<b>Heat Capacity</b>	J/gK	1.14	ASTM E1461-01
<b>Dielectric constant D<sub>k</sub></b>	@ 1 MHz	3.4	IPC TM 650 - 2.5.5.3
<b>Dissipation factor D<sub>f</sub></b>	@ 1 MHz	0.005	IPC TM 650 - 2.5.5.3
<b>Elastic Modulus</b>	psi	875	Arlon SQA-TMS-008
<b>Glass Transition</b>	°C	-117	ASTM E 1356
<b>CTE</b>	ppm/°C	180	ASTM E831
<u>Product Physical Properties</u>		<u>Value</u>	<u>Method</u>
<b>Dielectric Strength</b>	volts/mil	1400	ASTM D 149
<b>Lap Shear Strength</b>	psi	1000	ASTM D 1002
<b>Shear Modulus</b>	psi	75	ASTM D 1002
<b>Thermal Resistance</b>	°C-in <sup>2</sup> /W	0.8	ASTM E 1530
<b>Total Product Weight</b>	g/m <sup>2</sup>	322	Arlon SQA-TMS-025

**SHIPPING AND SHELF LIFE**
**Shipping Recommendation** Arlon recommends refrigerated shipping for this product.

**Product Shelf Life** 6 months from DOM at 45°F +/- 5°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 min @ 250°F under pressure

**Product Operating Temperature** -100 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.*

Last Revised May 13, 2016.