



SILICONE TECHNOLOGIES DIVISION
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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>
Thickness:	8 mil	Arlon SQA-TMS-003

Product Color : Light Blue

PHYSICAL PROPERTIES

<u>Silicone Compound Physical Properties</u>		<u>Value</u>	<u>Method</u>
Tensile Strength	psi	850	ASTM D 412
Elongation	%	400	ASTM D 412
Poisson's Ratio	---	~0.5	---
Durometer	Shore A Points	55	ASTM D 2240
Specific Gravity	---	1.45	Arlon SQA-TMS-024
Thermal Conductivity	W/m-K	0.4	ASTM E 1530
Heat Capacity	J/gK	1.14	ASTM E1461-01
Dielectric constant D_k	@ 1 MHz	3.4	IPC TM 650 - 2.5.5.3
Dissipation factor D_f	@ 1 MHz	0.005	IPC TM 650 - 2.5.5.3
Elastic Modulus	psi	875	Arlon SQA-TMS-008
Glass Transition	°C	-117	ASTM E 1356
CTE	ppm/°C	180	ASTM E831
<u>Product Physical Properties</u>		<u>Value</u>	<u>Method</u>
Dielectric Strength	volts/mil	1400	ASTM D 149
Lap Shear Strength	psi	1000	ASTM D 1002
Shear Modulus	psi	75	ASTM D 1002
Thermal Resistance	°C-in ² /W	0.8	ASTM E 1530
Total Product Weight	g/m ²	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 November 7, 2005.