



SILICONE TECHNOLOGIES DIVISION
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PRODUCT INFORMATION SHEET

Arlon Product Number

99A90X008

PRODUCT DESCRIPTION

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

Design / Construction

Liner: 1 mil FEP
Product: Uncured Silicone Rubber
Carrier: 3 mil PTFE coated fiberglass

Product Thickness

Thickness:

Value

8 mil

Method

Arlon SQA-TMS-003

Product Color :

Gray

PROPERTIES

<u>Silicone Compound Properties</u>		<u>Value</u>	<u>Method</u>
Tensile Strength	psi	365	ASTM D 412
Elongation	%	28	ASTM D 412
Poisson's Ratio	---	-0.5	---
Durometer	Shore A	87	ASTM D 2240
Plasticity	mm	7.1	Arlon SQA-TMS-005
Specific Gravity	---	1.85	Arlon SQA-TMS-024
Thermal Conductivity @ 100C	W/m-K	3.0	ASTM E 1530
Heat Capacity @ 100C	J/gK	0.85	Arlon SQA-TMS-052
Dielectric constant D _k @ 1 MHz	--	4.6	IPC TM 650 - 2.5.5.3
Dissipation factor D _f @ 1 MHz	--	0.0041	IPC TM 650 - 2.5.5.3
Elastic Modulus @ 1%	psi	9000	Arlon SQA-TMS-008
Glass Transition Temperature	°C	- 119	ASTM D3418
CTE (20°C - 160°C)	ppm/°C	52	ASTM E831
<u>Product Properties</u>		<u>Value</u>	<u>Method</u>
Dielectric Strength	volts/mil	900	ASTM D 149
Lap Shear Strength	psi	140	ASTM D 1002
Shear Modulus up to 100% strain	psi	265	ASTM D 1002
Thermal Resistance (50C 3MPa)	m ² *K/W	6E-5	Arlon SQA-TMS-054
Total Product Weight	g/m ²	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 7°C +/- 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 at 121°C and 0.345 MPa

Product Operating Temperature

-100 to 204°C

*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.arlon-std.com/Library/datasheets.htm>

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