



SILICONE TECHNOLOGIES DIVISION  
 1100 Governor Lea Road, Bear, DE 19701  
 (302) 834-2100 (302) 834-4021 (Fax)

## PRODUCT INFORMATION SHEET

Arlon Product Number 99510N008  
 Customer Part Number

### PRODUCT DESCRIPTION

8 mil thick Standard Thermabond<sup>®</sup> electrically insulating electronic adhesive.

#### 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 :** Light Gray

### PHYSICAL PROPERTIES

#### Silicone Compound Physical Properties

		<u>Value</u>	<u>Method</u>
<b>Tensile Strength</b>	psi	700	ASTM D 412
<b>Elongation</b>	%	550	ASTM D 412
<b>Poisson's Ratio</b>	---	~0.5	---
<b>Durometer</b>	Shore A Points	55	ASTM D 2240
<b>Specific Gravity</b>	---	1.47	Arlon SQA-TMS-024
<b>Thermal Conductivity</b>	W/m-K	0.4	ASTM E 1530
<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	0.004	IPC TM 650 - 2.5.5.3
<b>Volume Resistivity</b>	Ω-cm	3.8E+15	ASTM D257-99
<b>CTE : 30 - 150°C</b>	ppm/K	220	ASTM E 831
<b>Glass Transition Temp</b>	°C	< -100	ASTM D 3418

#### Product Physical Properties

		<u>Value</u>	<u>Method</u>
<b>Dielectric Strength</b>	volts/mil	750	ASTM D 149
<b>Lap Shear Strength</b>	psi	600	ASTM D 1002
<b>Shear Modulus</b>	psi	100	ASTM D 1002
<b>Thermal Resistance</b>	°C-in <sup>2</sup> /W	0.88	ASTM E 1530
<b>Total Product Weight</b>	g/m <sup>2</sup>	305	Arlon SQA-TMS-025

### PROCESSING RECOMMENDATIONS

**Product Shelf Life** 6 months from DOM @ 70°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.*

**Recommended Primers** Dow Corning S2260 or Lord Chemical Chemlok<sup>®</sup> 607

**Recommended Cure Cycle** 15 min @ 250°F under pressure

**Recommended Postcure Cycle** None

**Product Operating Temperature** -100 to 400°F