



Arlon Silicones Technology

1100 Governor Lea Road, Bear, DE 19701  
1.302.834.2100 • 1.302.834.4021 (Fax)

## PRODUCT INFORMATION SHEET

Arlon Product Number

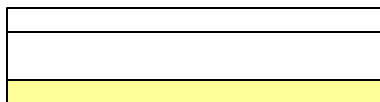
99000W015

### PRODUCT DESCRIPTION

Low Outgassing, thermally conductive, electrically insulating, Thermabond®. Bonds with primer.

#### Design / Construction

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



#### Product Thickness

**Thickness:**

#### Value

0.015"

#### Method

Arlon SQA-TMS-003

**Product Color :** White

### PHYSICAL PROPERTIES

#### Silicone Compound Properties

		Value	Method
Tensile Strength	psi	300	ASTM D 412
Elongation	%	28	ASTM D 412
Poisson's Ratio	---	~0.5	---
Durometer	SAP	85	ASTM D 2240
Specific Gravity	---	1.7	Arlon SQA-TMS-024
Thermal Conductivity	W/m-K	1.5	ASTM E 1530
Thermal Resistance	°C-in <sup>2</sup> /W	0.39	ASTM E 1530
Heat Capacity	J/gK	0.70	E1461-01
Dielectric constant D <sub>k</sub>	@ 1 MHz	3.8	IPC TM 650 - 2.5.5.3
Dissipation factor D <sub>f</sub>	@ 1 MHz	0.0028	IPC TM 650 - 2.5.5.3
Elastic Modulus	psi	4750	Arlon SQA-TMS-008
Glass Transition Temperature	°C	-116	ASTM E1356
Coefficient of Thermal Expansion	ppm/°C	110	ASTM E831

#### Product Properties

		Value	Method
Outgassing	%TML	0.29	ASTM E595
Outgassing	%CVM	0.07	ASTM E595
Dielectric Strength	volts/mil	800	ASTM D 149
Lap Shear Strength	psi	185	ASTM D 1002
Shear Modulus	psi	65	ASTM D 1002
Total Product Weight	g/m <sup>2</sup>	655	Arlon SQA-TMS-025

### PROCESSING RECOMMENDATIONS

#### 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.*

#### Recommended Primers

Dow Corning S2260

#### Recommended Cure Cycle

15 min @ 250°F under pressure

#### Recommended Postcure Cycle

None

#### 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 12, 2016.