



Arlon Silicones Technology

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## PRODUCT INFORMATION SHEET

Arlon Product Number

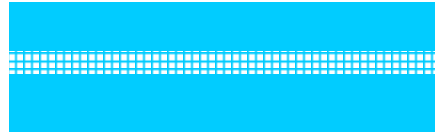
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### PRODUCT DESCRIPTION

Thermabond® G2pr - electrically insulating electronic adhesive. Bonds without primer.

#### Design / Construction

**Liner:** 1.5 mil polyethylene  
**Side 1:** Uncured Silicone Rubber  
**Substrate:** Style 1080 fiberglass  
**Side 2:** Uncured Silicone Rubber  
**Liner:** 1.5 mil polyethylene



#### Product Thickness

	<u>Value</u>	<u>Method</u>
<b>Side one thickness:</b>	0.0060"	Arlon SQA-TMS-003
<b>Fiberglass substrate thickness:</b>	0.0030"	Arlon SQA-TMS-003
<b>Side two thickness:</b>	0.0060"	Arlon SQA-TMS-003
<b>Overall thickness:</b>	0.0150"	Arlon SQA-TMS-003

**Product Color :** Light Blue

### PHYSICAL PROPERTIES

#### Silicone Compound Physical Properties

	<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	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	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 Temperature</b> °C	< -100	ASTM D3418
<b>Coefficient of Thermal Expansion</b> ppm/°C	180	ASTM E831

#### Product Physical Properties

	<u>Value</u>	<u>Method</u>
<b>Dielectric Strength</b> volts/mil	1140	ASTM D 149
<b>Lap Shear Strength</b> psi	850	ASTM D 1002
<b>Shear Modulus</b> psi	40	ASTM D 1002
<b>Dielectric constant D<sub>k</sub></b> @ 1 MHz	3.2	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>Thermal Conductivity</b> W/m-K	0.3	ASTM E 1530
<b>Thermal Resistance</b> °C-in <sup>2</sup> /W	1.7	ASTM E 1530
<b>Heat Capacity</b> J/gK	0.96	E1461-01
<b>CTE (X and Y)</b> ppm/°C	40	ASTM E831
<b>Total Product Weight</b> g/m <sup>2</sup>	439	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

No primer required.

#### Recommended Cure Cycle

15 min @ 250°F; 10-50 psi

#### 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 9, 2016.