



SILICONE TECHNOLOGIES DIVISION
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PRODUCT INFORMATION SHEET

Arlon Product Number

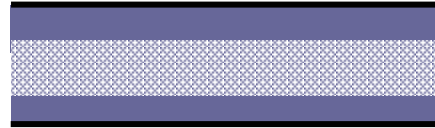
48781A008

PRODUCT DESCRIPTION

Generation II Thermabond[®] NP 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	Value	Method
Side one thickness:	0.0025"	Arlon SQA-TMS-003
Fiberglass substrate thickness:	0.0030"	Arlon SQA-TMS-003
Side two thickness:	0.0025"	Arlon SQA-TMS-003
Overall thickness:	0.0080"	Arlon SQA-TMS-003

Product Color : Blue

PHYSICAL PROPERTIES

Silicone Compound Physical Properties	Value	Method
Tensile Strength psi	750	ASTM D 412
Elongation %	400	ASTM D 412
Poisson's Ratio ---	~0.5	---
Durometer Shore A	55	ASTM D 2240
Specific Gravity ---	1.4	Arlon SQA-TMS-024
Thermal Conductivity W/m-K	0.4	ASTM E 1530
Heat Capacity J/gK	0.98	E1461-01
Dielectric constant D _k @ 1 MHz	3.3	IPC TM 650 - 2.5.5.3
Dissipation factor D _f @ 1 MHz	0.0045	IPC TM 650 - 2.5.5.3
Elastic Modulus psi	TBD	Arlon SQA-TMS-008
Glass Transition Temperature °C	< -100	ASTM D3418

Product Physical Properties	Value	Method
Dielectric Strength volts/mil	990	ASTM D 149
Lap Shear Strength psi	400	ASTM D 1002
Shear Modulus psi	30	ASTM D 1002
Dielectric constant D _k @ 1 MHz	3.5	IPC TM 650 - 2.5.5.3
Dissipation factor D _f @ 1 MHz	0.0049	IPC TM 650 - 2.5.5.3
Thermal Conductivity W/m-K	0.3	ASTM E 1530
Thermal Resistance °C-in ² /W	0.95	ASTM E 1530
CTE (X and Y) ppm/°C	20	ASTM E831
Total Product Weight g/m ²	240	Arlon SQA-TMS-025
Flame Retardancy UL 94V-0	Designed to Meet Requirements	UL 94V-0

PROCESSING RECOMMENDATIONS

Product Shelf Life	6 months from DOM at 45°F +/- 5°F <i>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.</i>
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 October 13, 2004