



Arlon Silicones Technology

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PRODUCT INFORMATION SHEET

Arlon Product Number

99770W015

PRODUCT DESCRIPTION

15 mil Primerless Thermabond[®] T-20 NP
Thermally conductive, electrically insulating 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

15 mil

Method

Arlon SQA-TMS-003

Product Color : White

PHYSICAL PROPERTIES

Silicone Compound Physical Properties

	<u>Value</u>	<u>Method</u>
Tensile Strength psi	560	ASTM D 412
Elongation %	23	ASTM D 412
Poisson's Ratio ---	-0.5	---
Durometer Shore A Points	88	ASTM D 2240
Specific Gravity ---	1.6	Arlon SQA-TMS-024
Thermal Conductivity W/m-K	0.8	ASTM E 1530
Heat Capacity J/gK	1.0	E1461-01
Dielectric constant D_k @ 1 MHz	3.5	IPC TM 650 - 2.5.5.3
Dissipation factor D_f @ 1 MHz	0.003	IPC TM 650 - 2.5.5.3
Elastic Modulus psi	6100	Arlon SQA-TMS-008
Glass Transition °C	< -100	ASTM D3418
CTE ppm/°C	79	ASTM E831

Product Physical Properties

	<u>Value</u>	<u>Method</u>
Dielectric Strength volts/mil	1090	ASTM D 149
Lap Shear Strength psi	330	ASTM D 1002
Shear Modulus psi	65	Arlon SQA-TMS-018
Thermal Resistance °C-in ² /W	0.7	ASTM E 1530
Total Product Weight g/m ²	610	Arlon SQA-TMS-025

SHIPPING AND SHELF LIFE

Shipping Recommendation Arlon recommends refrigerated shipping for this product.

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.

PROCESSING RECOMMENDATIONS

Recommended Primers No primer required.

Recommended Cure Cycle 15 min @ 285°F under pressure

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 13, 2016.