



Arlon Silicones Technology

DATA SHEET

Arlon Product Number 99990A008
Customer Part Number

PRODUCT DESCRIPTION

8 mil Primerless Thermabond[®] NP electrically insulating electronic adhesive. Bonds without primer.

Design / Construction

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



| <u>Product Thickness</u> | <u>Value</u> | <u>Method</u> |
|--------------------------|--------------|-------------------|
| Thickness: | 8 mil | Arlon SQA-TMS-003 |

Product Color : Light Blue

PHYSICAL PROPERTIES

| <u>Silicone Compound Physical Properties</u> | | <u>Value</u> | <u>Method</u> |
|--|----------------------------|--------------|----------------------|
| Tensile Strength | psi | 850 | ASTM D 412 |
| Elongation | % | 400 | ASTM D 412 |
| Poisson's Ratio | --- | ~0.5 | --- |
| Durometer | Shore A Points | 55 | ASTM D 2240 |
| Specific Gravity | --- | 1.45 | Arlon SQA-TMS-024 |
| Thermal Conductivity | W/m-K | 0.4 | ASTM E 1530 |
| Heat Capacity | J/gK | 1.14 | ASTM E1461-01 |
| Dielectric constant D_k | @ 1 MHz | 3.4 | IPC TM 650 - 2.5.5.3 |
| Dissipation factor D_f | @ 1 MHz | 0.005 | IPC TM 650 - 2.5.5.3 |
| Elastic Modulus | psi | 875 | Arlon SQA-TMS-008 |
| Glass Transition | °C | -117 | ASTM E 1356 |
| CTE | ppm/°C | 180 | ASTM E831 |
| <u>Product Physical Properties</u> | | <u>Value</u> | <u>Method</u> |
| Dielectric Strength | volts/mil | 1400 | ASTM D 149 |
| Lap Shear Strength | psi | 1000 | ASTM D 1002 |
| Shear Modulus | psi | 75 | ASTM D 1002 |
| Thermal Resistance | °C-in²/W | 0.8 | ASTM E 1530 |
| Total Product Weight | g/m² | 322 | 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 @ 250°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.*

Please verify that any printed hard copy of this datasheet is current by referencing:

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