



Arlon Silicones Technology

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PRODUCT INFORMATION SHEET

Arlon Product Number

99510N008

PRODUCT DESCRIPTION

8 mil thick Standard Thermabond[®] electrically insulating electronic adhesive.

Design / Construction

Liner: 0.001" FEP

Side 1: Uncured Silicone Rubber

Interleave: 0.003" PTFE

Dimensions

Overall Thickness:

Value

0.008"

Method

Arlon SQA-TMS-003

Product Color : Light Gray

TYPICAL PROPERTIES

Silicone Compound Properties

Tensile Strength

psi

Value

700

Method

Arlon SQA-TMS-008

Elongation

%

550

Arlon SQA-TMS-008

Poisson's Ratio

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~0.5

Durometer

Shore A Points

55

Arlon SQA-TMS-014

Specific Gravity

1.47

Arlon SQA-TMS-024

Thermal Conductivity

W/m-K

0.4

Arlon SQA-TMS-022

Dielectric constant D_k

@ 1 MHz

3.4

IPC TM 650-2.5.5.3

Dissipation factor D_f

@ 1 MHz

0.004

IPC TM 650-2.5.5.3

Volume Resistivity

Ω -cm

3.8×10^{15}

Arlon SQA-TMS-046

CTE: 30-150°C

ppm/K

220

ASTM E 831

Glass Transition Temp.

°C

<-100

Arlon SQA-TMS-055

Product Properties

Dielectric Breakdown Strength

volts/mil

Value

972

Method

Arlon SQA-TMS-020

Lap Shear Strength

psi

638

Arlon SQA-TMS-018

Shear Modulus

psi

100

Arlon SQA-TMS-018

Thermal Resistance

°C-in²/W

0.88

Arlon SQA-TMS-054

Total Product Weight

oz/yd²

9.3

Arlon SQA-TMS-025

SHELF LIFE & PROCESSING RECOMMENDATIONS

Product Shelf Life

6 months from date of manufacture @ 70°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 PR-2260 or Lord Chemical Chemlok[®] 607

Recommended Cure Cycle

15 min @250°F under pressure

Product Operating Temperature

-100°F to 450°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:

<http://www.rogerscorporation.com>

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