



Elastomeric Material Solutions Division
 1100 Governor Lea Road, Bear, DE 19701
 (302) 834-2100 (302) 834-4021 (Fax)
www.rogerscorp.com/arlon

PRODUCT INFORMATION SHEET

ARLON® Product Number 48A51R009

PRODUCT DESCRIPTION

Secure® 1500FG: Thermally Conductive Structural Adhesive

Design / Construction

Interleave: 0.0025" Polyethylene
Side 1: Uncured Silicone Rubber
Substrate: Style 1080 Fiberglass
Side 2: Uncured Silicone Rubber
Carrier: 0.005" PTFE Coated Fiberglass



Rubber Add-On Thickness

	<u>Value</u>	<u>Method</u>
Side 1:	0.003"	Arlon SQA-TMS-003
Side 2:	0.003"	Arlon SQA-TMS-003
Overall Thickness:	0.009"	Arlon SQA-TMS-003

Product Color: Mauve

TYPICAL PROPERTIES

Silicone Properties

	<u>Value</u>	<u>Method</u>
Glass Transition Temperature °F	-85°	Arlon SQA-TMS-055
Thermal Conductivity @100°C W/mK	1.2	Arlon SQA-TMS-022
Durometer Shore A Points	85	Arlon SQA-TMS-014
Specific Gravity ---	2.5	Arlon SQA-TMS-024

Substrate Properties

	<u>Value</u>	<u>Method</u>
Thickness	0.003"	Arlon SQA-TMS-003
Color	White	N/A

Product Properties

	<u>Value</u>	<u>Method</u>
Dielectric Strength volts/mil	1085	Arlon SQA-TMS-020
Lap Shear Strength psi	432	Arlon SQA-TMS-018
Torque Strength kg-cm	13.9	Arlon SQA-TMS-065
Flame Resistance UL94	V-0	Arlon SQA-TMS-019
Thermal Impedance @ 380PSI in ² ·C/W	0.4	Arlon SQA-TMS-054
Total Product Weight oz/yd ²	12.6	Arlon SQA-TMS-025

SHIPPING AND SHELF LIFE

Shipping Recommendation Rogers recommends refrigerated shipment for this product

Product Shelf Life 6 months from date of manufacture @ 45°F +/- 3°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 minutes @ 250°F and 15 to 50 psi
Product Operating Temperature	-50°F to 400°F

UL INFORMATION

UL Recognition: E54153

- The data presented in this document represent typical values for the production material.
- Typical values should not be used for specification limits.
- Please verify that any printed hard copy of this datasheet is current by referencing: www.rogerscorp.com/arlon

The information contained in this Data Sheet is intended to assist you in designing with Rogers' ARLON Materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' ARLON Materials for each application. The Rogers logo, Helping power, protect, connect our world, ARLON and Secure are trademarks of Rogers Corporation or one of its subsidiaries. ©2016, 2018 Rogers Corporation, All rights reserved. Printed in U.S.A., 0218-PDF, Publication #202-035