



SILICONE TECHNOLOGIES DIVISION
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PRODUCT INFORMATION SHEET

Arlon Product Number

680-R3844R

PRODUCT DESCRIPTION

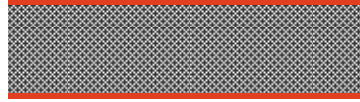
Arlon Thin Profile Thermal Insulation

Design / Construction

Side 1: Cured silicone coating

Substrate: Silica-based

Side 2: Cured silicone coating



Thickness	Value	Method
Side 1:	0.002"	Arlon SQA-TMS-003
Substrate	0.080"	Arlon SQA-TMS-003
Side 2:	0.002"	Arlon SQA-TMS-003
Overall Thickness:	0.084"	Arlon SQA-TMS-003

Product Color : Dark red

PHYSICAL PROPERTIES

Properties	Unit	Value	Method
Thermal conductivity	W/(m·K) at 200°C	0.03	Arlon SQA-TMS-022
Break strength	lb/inch at warp direction	18	Arlon SQA-TMS-026
Bond Strength	lb/in to Arlon 51270R015	>1.0	Arlon SQA-TMS-011
Total Product Weight	oz/yd ²	15.7	Arlon SQA-TMS-025
Temperature Gradient on a 250°C Hot Pipe	Degrees C	250°C→(ΔT=122°C)→128°C	Arlon internal test method

SHELF LIFE AND PROCESSING RECOMMENDATIONS

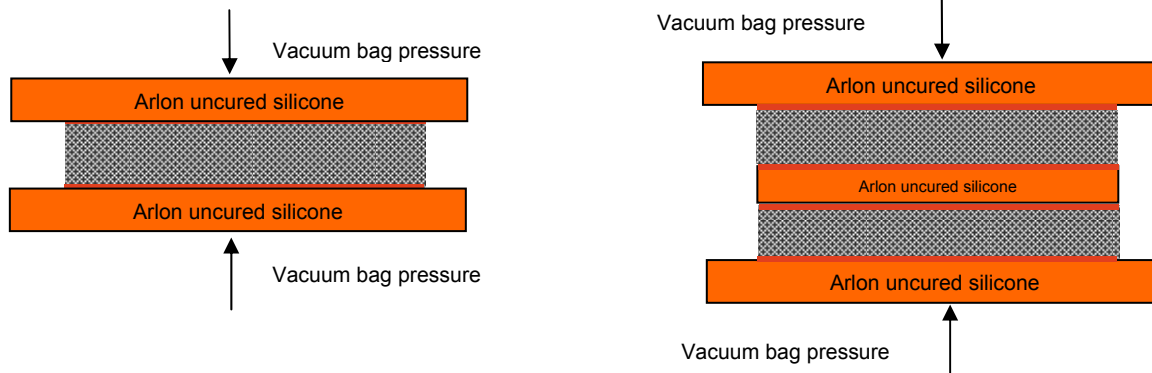
Product Shelf Life

5 years from the 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 process method for particle free applications

Vacuum Bag Cure Cycle: 15 minutes @ 250°F under 15 psi
 -Oversized uncured silicone rubber to seal the exposed edges



Product Operating Temperature -65°F to 482°F

Application Advantages

- Extremely low thermal conductivity
- Thermally stable
- Bondable to silicone rubber
- 2-3 times thinner than competing silicone foam
- Flexible and light weight
- Energy savings

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 copies of this datasheet are current by referencing:

<http://www.arlon-std.com/Library/datasheets.htm>

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