

# ARLON<sup>®</sup> SILICONE SPONGE TENTATIVE SPECIFICATION

**Item Number:** 99C52R250  
**Description:** Flexible Heater Substrate  
Silicone Sponge

## Design / Construction



**Material:** General Purpose Silicone Sponge  
**Color:** Red

	<u>Target</u>	<u>Tolerance</u>	<u>Method</u>
Thickness (inch):	0.250	+/- 0.025	SQA-TMS-003
Compression deflection at 25% (psi):	12.5	+/- 2.5	SQA-TMS-073
Water absorption (closed cell test):	1%	5% Max	SQA-TMS-075
Thermal Conductivity (W/mK):	0.110	0.150 Max	SQA-TMS-022
Specific Gravity:	0.5	+/- 0.1	SQA-TMS-024

## Other Typical Properties:

Compression Set at 100°C (22hrs):	<20%
Tensile Strength (psi):	> 100 psi
Elongation (%):	>300%
Ply Adhesion to Arlon 51276R015:	> 3 lbs/in
Total Mass Loss (125°C, 24hr, vacuum):	<1%
Tensile Strength Retention (after 250°C* 3 Days):	>70%
Elongation Retention (after 250°C* 3 Days):	>30%

## General

**Shelf Life:** 5 years from date of manufacture @ 70°F  
**Product Operating Temperature:** -50°C - 230°C



Arlon Silicones Technology

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