

ARLON[®] SILICONE SPONGE TENTATIVE SPECIFICATION

Item Number: 99C72X250
Description: Flexible Heater Substrate
Silicone Sponge

Design / Construction



Material: UL 94 V-0 Silicone Sponge
Color: Gray

	<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
UL 94 V-0 Flammability Resistance:	PASS	-	SQA-TMS-019

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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