



Arlon Silicones Technology

DATA SHEET	
Arlon Product Number	99000W008

PRODUCT DESCRIPTION		
Low Outgassing, thermally conductive, electrically insulating, Thermabond®. Bonds with primer.		
<b>Design / Construction</b>		
Liner:	1 mil FEP	
Product:	Uncured Silicone Rubber	
Carrier:	3 mil PTFE coated fiberglass	
<b>Product Thickness</b>	<b>Value</b>	<b>Method</b>
Thickness:	0.008"	Arlon SQA-TMS-003
<b>Product Color :</b>	White	
PHYSICAL PROPERTIES		
<b>Silicone Compound Properties</b>		
	<b>Value</b>	<b>Method</b>
Tensile Strength	psi	300
Elongation	%	28
Poisson's Ratio	---	~0.5
Durometer	SAP	85
Specific Gravity	---	1.7
Thermal Conductivity	W/m-K	1.5
Thermal Resistance	°C-in <sup>2</sup> /W	0.39
Heat Capacity	J/gK	0.70
Dielectric constant D <sub>k</sub>	@ 1 MHz	3.8
Dissipation factor D <sub>f</sub>	@ 1 MHz	0.0028
Elastic Modulus	psi	4750
Glass Transition Temperature	°C	-116
Coefficient of Thermal Expansion	ppm/°C	110
<b>Product Properties</b>		
	<b>Value</b>	<b>Method</b>
Outgassing	%TML	0.29
Outgassing	%CVM	0.07
Dielectric Strength	volts/mil	950
Lap Shear Strength	psi	185
Shear Modulus	psi	65
Total Product Weight	g/m <sup>2</sup>	345
PROCESSING RECOMMENDATIONS		
<b>Product Shelf Life</b>	6 months from DOM at 45°F +/- 5°F	
	<i>Note: Shelf life is defined as the duration of time for which the product will meet the physical characteristics outlined on this page.</i>	
	<i>It does not guarantee the product's usefulness in all applications.</i>	
<b>Recommended Primers</b>	Dow Corning S2260	
<b>Recommended Cure Cycle</b>	15 min @ 250°F under pressure	
<b>Recommended Postcure Cycle</b>	None	
<b>Product Operating Temperature</b>	-100 to 400°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:

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11100 Governor Lea Road

Bear, DE 19701

1-302-834-1200