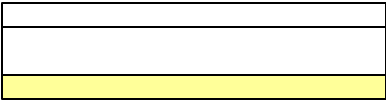




Arlon Silicones Technology

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PRODUCT INFORMATION SHEET	
<b>Arlon Product Number</b>	99720W015

PRODUCT DESCRIPTION		
Thermally conductive, electrically insulating, Thermabond®. Bonds with primer.		
<b>Design / Construction</b>		
<b>Liner:</b>	1 mil FEP	
<b>Product:</b>	Uncured Silicone Rubber	
<b>Carrier:</b>	3 mil PTFE coated fiberglass	
<b>Product Thickness</b>	<b>Thickness:</b>	<b>Value</b> 0.015"
		<b>Method</b> Arlon SQA-TMS-003
<b>Product Color :</b>	White	
PHYSICAL PROPERTIES		
<b>Silicone Compound Physical Properties</b>		
	<b>Value</b>	<b>Method</b>
<b>Tensile Strength</b>	psi	640
<b>Elongation</b>	%	15
<b>Poisson's Ratio</b>	---	~0.5
<b>Durometer</b>	SAP	88
<b>Specific Gravity</b>	---	1.7
<b>Thermal Conductivity</b>	W/m-K	1.2
<b>Thermal Resistance</b>	°C-in <sup>2</sup> /W	0.50
<b>Heat Capacity</b>	J/gK	0.76
<b>Dielectric constant D<sub>k</sub></b>	@ 1 MHz	3.5
<b>Dissipation factor D<sub>f</sub></b>	@ 1 MHz	0.0015
<b>Elastic Modulus</b>	psi	7000
<b>Glass Transition Temperature</b>	°C	-116
<b>Coefficient of Thermal Expansion</b>	ppm/°C	45
<b>Product Physical Properties</b>		
	<b>Value</b>	<b>Method</b>
<b>Dielectric Strength</b>	volts/mil	1000
<b>Lap Shear Strength</b>	psi	350
<b>Shear Modulus</b>	psi	70
<b>Total Product Weight</b>	g/m <sup>2</sup>	648
		Arlon SQA-TMS-008
		Arlon SQA-TMS-025
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.

Last Revised May 13, 2016.