




Arlon Silicones Technology

DATA SHEET	
Arlon Product Number	99510N008

PRODUCT DESCRIPTION			
<b>8 mil thick Standard Thermabond® electrically insulating electronic adhesive.</b>			
<b>Design / Construction</b>			
Liner:	0.001" FEP		
Side 1:	Uncured Silicone Rubber		
Interleave:	0.003" PTFE		
<b>Dimensions</b>	<b>Overall Thickness:</b>	<b>Value</b> 0.008"	
		<b>Method</b> Arlon SQA-TMS-003	
<b>Product Color :</b> Light Gray			
TYPICAL PROPERTIES			
<b>Silicone Compound Properties</b>		<b>Value</b>	<b>Method</b>
Tensile Strength	psi	700	Arlon SQA-TMS-008
Elongation	%	550	Arlon SQA-TMS-008
Poisson's Ratio	--	~0.5	---
Durometer	Shore A Points	55	Arlon SQA-TMS-014
Specific Gravity	---	1.47	Arlon SQA-TMS-024
Thermal Conductivity	W/m-K	0.4	Arlon SQA-TMS-022
Dielectric constant D <sub>k</sub>	@ 1 MHz	3.4	IPC TM 650-2.5.5.3
Dissipation factor D <sub>f</sub>	@ 1 MHz	0.004	IPC TM 650-2.5.5.3
Volume Resistivity	Ω-cm	3.8X10 <sup>15</sup>	Arlon SQA-TMS-046
CTE: 30-150°C	ppm/K	220	ASTM E 831
Glass Transition Temp.	°C	<-100	Arlon SQA-TMS-055
<b>Product Properties</b>		<b>Value</b>	<b>Method</b>
Dielectric Breakdown Strength	volts/mil	972	Arlon SQA-TMS-020
Lap Shear Strength	psi	638	Arlon SQA-TMS-018
Shear Modulus	psi	100	Arlon SQA-TMS-018
Thermal Resistance	°C-in <sup>2</sup> /W	0.88	Arlon SQA-TMS-054
Total Product Weight	oz/yd <sup>2</sup>	9.3	Arlon SQA-TMS-025
SHELF LIFE & PROCESSING RECOMMENDATIONS			
<b>Product Shelf Life</b>		6 months from date of manufacture @ 70°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. It does not guarantee the product's usefulness in all applications.</i>			
<b>Recommended Primers</b>		Dow Corning PR-2260 or Lord Chemical Chemlok® 607	
<b>Recommended Cure Cycle</b>		15 min @250°F under pressure	
<b>Product Operating Temperature</b>		-100°F to 450°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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