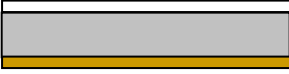


DATA SHEET	
Arlon Product Number	99A50X008

PRODUCT DESCRIPTION		
Primerless Thermabond®: Electrically insulating, thermally conductive, electronic adhesive. Bonds without primer.		
Design / Construction		
Interleave:	0.001" FEP	
Product:	Uncured Silicone Rubber	
Carrier:	0.003" PTFE coated fiberglass	
Product Thickness	Value	Method
Overall Thickness	0.008"	Arlon SQA-TMS-003
Product Color :	Gray	
TYPICAL PROPERTIES		
Silicone Properties	Value	Method
Tensile Strength	psi	685
Elongation	%	125
Poisson's Ratio	---	~0.5
Durometer	Shore A	77
Plasticity	mm	2.30
Specific Gravity	---	2.80
Thermal Conductivity @ 100C	W/m-K	1.4
Heat Capacity @ 100C	J/gK	0.82
Dielectric constant D _k @ 1MHz	---	6.9
Dissipation factor D _f @ 1MHz	---	0.0044
Elastic Modulus up to 1% strain	psi	3550
Glass Transition Temperature	°C	-118
CTE (20°C – 160°C)	ppm/°C	111
Product Properties	Value	Method
Dielectric Strength	volts/mil	800
Lap Shear Strength	psi	500
Shear Modulus up to 25% strain	psi	145
Thermal Resistance @ (50C 3MPa)	m ² *K/W	9.6E-5
Flame Resistance (not recognized)	---	V-0
Total Product Weight	oz./yd ²	16.78
SHIPPING AND SHELF LIFE		
Shipping Recommendation	Arlon recommends refrigerated shipment for this product.	
Product Shelf Life	6 months from DOM at 7°C +/- 3°C	
<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>		
PROCESSING RECOMMENDATIONS		
Recommended Primers	No primer required.	
Recommended Cure Cycle	15 minutes @ 121°C and 0.101 to 0.345 MPa	
Product Operating Temperature	-100 to 204°C	

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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