

Arlon Thermabond® R37340X008 Primerless Electronic Adhesive (discontinued **)

Category : Polymer , Adhesive , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

Material Notes:

Liner: 1 mil FEP; Product: uncured Silicone Rubber; Carrier: 3 mil PTFE coated fiberglass

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-Thermabond-R37340X008-Primerless-Electronic-Adhesive-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	Arlon SQA-TMS-024
Thickness	203 microns	8.00 mil	Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Tensile Strength, Ultimate	2.52 MPa	365 psi	ASTM D412
Elongation at Break	28 %	28 %	ASTM D412
Modulus of Elasticity	0.0621 GPa	9.00 ksi	Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	
Shear Modulus	0.00183 GPa	0.265 ksi	ASTM D1002
Shear Strength	0.965 MPa	140 psi	ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM E 831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	0.850 J/g- $^{\circ}\text{C}$	0.203 BTU/lb- $^{\circ}\text{F}$	Arlon SQA-TMS-052
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	
Thermal Conductivity	3.00 W/m-K	20.8 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	Silicone property; ASTM E1530
	3.3867 W/m-K	23.504 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	SQA-TMS-054
Maximum Service Temperature, Air	95.6 $^{\circ}\text{C}$	204 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-73.3 $^{\circ}\text{C}$	-100 $^{\circ}\text{F}$	

Glass Transition Temp, Tg Thermal Properties	-119 °C Metric	-182 °F English	ASTM D3418 Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	4.602	4.602	IPC TM 650-2.5.5.3
Dielectric Strength	35.4 kV/mm	900 kV/in	ASTM D149
Dissipation Factor	0.0041	0.0041	IPC TM 650-2.5.5.3

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 121 °C	0.250 hour @Temperature 250 °F	
Shelf Life	6.00 Month @Temperature 7.00 °C	6.00 Month @Temperature 44.6 °F	

Descriptive Properties	Value	Comments
Color	Gray	
Plasticity (mm) Arlon SQA-TMS-005	7.1	

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