

Arlon Thermabond® 99000W015 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Low outgassing, thermally conductive, electrically insulating, Thermabond®. Bonds with primer. 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-99000W015-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	381 microns	15.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	silicone property; ASTM D2240
Tensile Strength, Ultimate	2.07 MPa	300 psi	silicone property; ASTM D412
Elongation at Break	28 %	28 %	silicone property; ASTM D412
Modulus of Elasticity	0.0328 GPa	4.75 ksi	silicone property; Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	silicone property
Shear Modulus	0.448 GPa	65.0 ksi	silicone property; ASTM D1002
Shear Strength	1.28 MPa	185 psi	silicone property; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	110 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	silicone property; ASTM E 831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	0.700 J/g- $^{\circ}\text{C}$	0.167 BTU/lb- $^{\circ}\text{F}$	silicone property; ASTM E 1461-1
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² - $^{\circ}\text{F}$	silicone property; ASTM E 1530
Maximum Service Temperature, Air	204 $^{\circ}\text{C}$	400 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-73.3 $^{\circ}\text{C}$	-100 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	-116 $^{\circ}\text{C}$	-177 $^{\circ}\text{F}$	silicone property; ASTM E 1356

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	silicone property; IPC TM 650-2.5.5.3
Dielectric Strength	31.5 kV/mm	800 kV/in	ASTM D149
Dissipation Factor	0.0028	0.0028	silicone property; IPC TM 650-2.5.5.3
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 7.22 °C	@Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Color	White	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China