

Arlon Thermabond® 99950N015 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Electrically conductive, Thermabond®. primerless. 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-99950N015-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.70 g/cc	3.70 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	84	84	silicone property; ASTM D2240
Tensile Strength, Ultimate	3.34 MPa	485 psi	silicone property; ASTM D412
Elongation at Break	60 %	60 %	silicone property; ASTM D412
Modulus of Elasticity	0.01957 GPa	2.838 ksi	silicone property; Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	silicone property
Shear Modulus	0.379 GPa	55.0 ksi	silicone property; ASTM D1002
Shear Strength	3.65 MPa	530 psi	silicone property; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	93.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	51.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	silicone property; ASTM E 831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.400 J/g·°C	0.0956 BTU/lb·°F	silicone property; ASTM E 1461-1
Thermal Conductivity	2.50 W/m·K	17.4 BTU-in/hr-ft ² -°F	silicone property; ASTM E 1530
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Glass Transition Temp, Tg	-116 °C	-177 °F	silicone property; ASTM E 1356
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	0.050 ohm-cm Metric	0.050 ohm-cm English	silicone property; ASTM D991 Comments
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Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 141 °C	0.250 hour @Temperature 285 °F	
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Color	Naturally Gray	

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