

Arlon Thermabond® 99180T010 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-99180T010-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	254 microns	10.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	silicone property; ASTM D2240
Tensile Strength, Ultimate	6.89 MPa	1000 psi	silicone property; ASTM D412
Elongation at Break	950 %	950 %	silicone property; ASTM D412
Modulus of Elasticity	0.000517 GPa	0.0750 ksi	silicone property; Arlon SQA-TMS-008
Poissons Ratio	0.50	0.50	silicone property
Shear Strength	3.45 MPa	500 psi	silicone property; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	335 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	186 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	silicone property; ASTM E 831
Thermal Conductivity	0.900 W/m-K	6.25 BTU-in/hr-ft ² - $^{\circ}\text{F}$	silicone property; Arlon SQA-TMS-022
Maximum Service Temperature, Air	204 $^{\circ}\text{C}$	400 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-51.1 $^{\circ}\text{C}$	-60.0 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Strength	39.4 kV/mm	1000 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
	15.0 min	0.250 hour	

Processing Properties	Metric	English	Comments
	@Pressure 0.103 - 0.345 MPa, Temperature 121 °C	@Pressure 15.0 - 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Appearance	Translucent	

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