

Arlon I51576R015 Silicone Rubber/Fiberglass/Alloy Laminate

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

Material Notes:

Top layer of side 2: alloy 600 foil; Bottom layer of side 2: cured silicone rubber; Substrate is 7628 fiberglass; Side 1: cured silicone rubber

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-I51576R015-Silicone-RubberFiberglassAlloy-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	silicone property (alloy 600 = 8.41 g/cc); Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	laminated foil; Arlon SQA-TMS-003
	50.8 microns	2.00 mil	side 1; Arlon SQA-TMS-003
	140 microns	5.50 mil	side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	substrate; Arlon SQA-TMS-003
	419 microns	16.5 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	silicone property; ASTM D2240
Tensile Strength, Ultimate	6.21 MPa	900 psi	silicone property; ASTM D412
Elongation at Break	400 %	400 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0483 MPa	7.00 psi	bond to alloy 600; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	13.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.72 $\mu\text{in}/\text{in}\cdot\text{°F}$	alloy 600 property
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	silicone property; ASTM D149

Processing Properties	Metric	English	Comments
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Processing Properties	120 min Metric	2.00 hour English	Comments
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

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