

Arlon 51146R020 Silicone Rubber/Fiberglass Laminate

Category : Polymer , Thermoset , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

Material Notes:

Side 1: cured silicone rubber; Substrate: 7628 fiberglass; Side 2: uncured silicone rubber; Interleave: 3 mil polyethylene

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-51146R020-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	side 1 silicone; Arlon SQA-TMS-003
	203 microns	8.00 mil	substrate; Arlon SQA-TMS-003
	229 microns	9.00 mil	side 2 silicone; Arlon SQA-TMS-003
	508 microns	20.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	silicone property; ASTM D2240
Tensile Strength, Ultimate	5.52 MPa	800 psi	silicone property; ASTM D412
Elongation at Break	225 %	225 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0586 MPa	8.50 psi	Arlon SQA-TMS-011
Tear Strength	15.8 kN/m	90.0 pli	silicone property; ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
UL RTI, Electrical	200 °C	392 °F	
UL RTI, Mechanical without Impact	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	27.6 kV/mm	700 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
	15.0 min	0.250 hour	

Cure Time Processing Properties	Metric @Pressure 0.345 MPa, Temperature 121 °C	English @Pressure 50.0 psi, Temperature 250 °F	Comments
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	

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