

Arlon 18976XA023 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Side 1:cured silicone rubber; Substrate: 11523 fiberglass; Side 2: uncured silicone rubber; Interleave: 3 mil Polyethylene

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-18976XA023-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	Silicone Property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	silicone, side 1; Arlon SQA-TMS-003
	102 microns	4.00 mil	silicone, side 2; Arlon SQA-TMS-003
	381 microns	15.0 mil	substrate; Arlon SQA-TMS-003
	584 microns	23.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	Silicone Property; ASTM D2240
Tensile Strength, Ultimate	8.89 MPa	1290 psi	Silicone Property; ASTM D412
Elongation at Break	150 %	150 %	Silicone Property; ASTM D412
Adhesive Bond Strength	0.0228 MPa	3.30 psi	Arlon SQA-TMS-011
Tear Strength	14.5 kN/m	83.0 pli	Silicone, Die B; 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	
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.1 kV/mm	536 kV/in	ASTM D149

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	

Processing Properties	Metric	English	Comments
	6.00 Month	6.00 Month	
Shelf Life	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	

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