

Arlon 19646B025 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: 1523 fiberglass; Side 2: uncured silicone rubber; Interleave: 3 mil Polyethylene

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-19646B025-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	Side 2 Silicone Property; Arlon SQA-TMS-024
	1.38 g/cc	1.38 g/cc	Side 1 Silicone Property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	silicone, side 1; Arlon SQA-TMS-003
	178 microns	7.00 mil	silicone, side 2; Arlon SQA-TMS-003
	356 microns	14.0 mil	substrate; Arlon SQA-TMS-003
	635 microns	25.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	51	51	Side 1 Silicone Property; ASTM D2240
	56	56	Side 2 Silicone Property; ASTM D2240
Tensile Strength, Ultimate	5.17 MPa	750 psi	Side 2 Silicone Property; ASTM D412
	5.31 MPa	770 psi	Side 1 Silicone Property; ASTM D412
Elongation at Break	265 %	265 %	Side 1 Silicone Property; ASTM D412
	765 %	765 %	Side 2 Silicone Property; ASTM D412
Adhesive Bond Strength	0.0689 MPa	10.0 psi	Arlon SQA-TMS-011
Tear Strength	10.5 kN/m	60.0 pli	Side 2 Silicone Property; ASTM D624
	10.9 kN/m	62.0 pli	Side 1 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.7 kV/mm	476 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	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Black	

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