

Arlon 51976XA015 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-51976XA015-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	88.9 microns	3.50 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
	432 microns	17.0 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	0.0207 MPa	3.00 psi	Arlon SQA-TMS-011
Tear Strength	14.5 kN/m	83.0 pli	Die B; 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	
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
Dielectric Strength	31.9 kV/mm	811 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 204 °C	@Temperature 400 °F	

Processing Properties	15.0 min Metric	0.250 hour English	Comments
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	

Contact Songhan Plastic Technology Co.,Ltd.

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