

Arlon 56946C026 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Side 1: cured silicone rubber; Substrate: 1564 fiberglass; Side 2: uncured silicone rubber; Interleave: 3 mil polyethylene

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-56946C026-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	152 microns	6.00 mil	side 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	side 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	substrate; Arlon SQA-TMS-003
	711 microns	28.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	silicone property; ASTM D2240
Tensile Strength, Ultimate	7.93 MPa	1150 psi	silicone property; ASTM D412
Elongation at Break	500 %	500 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0710 MPa	10.3 psi	Arlon SQA-TMS-011

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	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 204 °C	@Temperature 400 °F	
	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
Shelf Life	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Brown	

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