

Arlon R37879X034 Silicone Rubber/Fiberglass Laminate

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

Material Notes:

Interleave: 3 mil PE; Layer 2: uncured silicone rubber; Layer 1: Cured silicone rubber; Substrate: 162 fiberglass

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-R37879X034-Silicone-RubberFiberglass-Laminate.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.70 g/cc	2.70 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	layer 1; Arlon SQA-TMS-003
	305 microns	12.0 mil	layer 2; Arlon SQA-TMS-003
	457 microns	18.0 mil	substrate; Arlon SQA-TMS-003
	864 microns	34.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	silicone property; ASTM D2240
Tensile Strength, Ultimate	4.72 MPa	685 psi	silicone property; ASTM D412
Elongation at Break	125 %	125 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0155 MPa	2.25 psi	Arlon SQA-TMS-011
Tear Strength	8.77 kN/m	50.0 pli	Die B; silicone property; ASTM D624

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.70 W/m-K	11.8 BTU-in/hr-ft ² -°F	overall; Arlon SQA-TMS-054
	1.40 W/m-K	9.72 BTU-in/hr-ft ² -°F	silicone property; ASTM E1530
	@Temperature 100 °C	@Temperature 212 °F	
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	16.7 kV/mm	425 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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Processing Properties	120 min Metric	2.00 hour English	Comments
	@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	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 7.22 °C	@Temperature 45.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	

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