

Arlon 44278R018B 0.018" Uncured/Cured/Uncured Silicone Rubber Laminate with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave 1: LDPE Side 2 Layer 2: Uncured Silicone Rubber Side 2 Layer 1: Cured Silicone Rubber Substrate: Style 1165 Fiberglass Side 1: Cured Silicone Rubber Interleave: LDPE
 U Recognition File E54153 This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-44278R018B-0018-UncuredCuredUncured-Silicone-Rubber-Laminate-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Side 2 Layer 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 2 Layer 2; Arlon SQA-TMS-003
	127 microns	5.00 mil	Substrate; Arlon SQA-TMS-003
	457 microns	18.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; Arlon SQA-TMS-014
Tensile Strength	5.52 MPa	800 psi	Silicone Property; Arlon SQA-TMS-009
Elongation at Break	225 %	225 %	Silicone Property; Arlon SQA-TMS-009
Tear Strength	15.8 kN/m	90.0 pli	Die B, Silicone Property; Arlon SQA-TMS-029
Peel Strength	1.24 kN/m	7.10 pli	Bond Strength (S1 to S2); Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	32.7 kV/mm Metric	831 kV/in English	Arlon-SQA-TMS-020 Comments
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Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 204 °C	2.00 hour @Temperature 400 °F	Recommended Post Cure Cycle
	15.0 min @Pressure 0.345 MPa, Temperature 121 °C	0.250 hour @Pressure 50.0 psi, Temperature 250 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 21.1 °C	6.00 Month @Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	18.6	Arlon SQA-TMS-025

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