

Arlon 44570XB025 0.025" Uncured Silicone Rubber with Fiberglass

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

Material Notes:

Design/Construction: Interleave: 2.5 mil Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 1165 Fiberglass 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-44570XB025-0025-Uncured-Silicone-Rubber-with-Fiberglass.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	127 microns	5.00 mil	Substrate; Arlon SQA-TMS-003
	508 microns	20.0 mil	Silicone; Arlon SQA-TMS-003
	635 microns	25.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	Silicone Property; ASTM D2240
Tensile Strength	6.38 MPa	925 psi	Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Silicone Property; ASTM D412
Peel Strength	3.86 kN/m	22.0 pli	Bond Strength; 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
Dielectric Strength	29.5 kV/mm	750 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa,	@Pressure 50.0 psi,	

Processing Properties	Temperature 149 °C Metric	Temperature 300 °F English	Comments
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	Silicone
	White	Substrate
Total Product Weight (oz/yd2)	23.8	Arlon SQA-TMS-025

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