

Arlon R38020B020 0.020" (0.508 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: LDPE Side 1: Uncured Silicone Rubber Substrate: Style 1165 Fiberglass This data represents typical values for the production material. The data should not be used to write, or in place of, material specifications. Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-R38020B020-0020-0508-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	140 microns	5.50 mil	Substrate; Arlon SQA-TMS-003
	368 microns	14.5 mil	Side 1; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Tensile Strength	4.92 MPa	714 psi	Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Silicone Property; ASTM D412
Tear Strength	12.8 kN/m	73.0 pli	Die B, Silicone Property; ASTM D624
Peel Strength	0.508 kN/m	2.90 pli	Bond Strength (S1 to S1); 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
Volume Resistivity	1.84 ohm-cm	1.84 ohm-cm	ASTM D991

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa,	@Pressure 50.0 psi,	

Processing Properties	Temperature 177 °C Metric	Temperature 350 °F English	Comments
Shelf Life	3.00 Month @Temperature 7.22 °C	3.00 Month @Temperature 45.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Black	
	Black	Substrate
	Gray	Substrate
Total Product Weight (oz/yd2)	15.6	Arlon SQA-TMS-025

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