

Arlon 51991A020 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 1: Polyethylene Side 1: Uncured Silicone RubberSubstrate: Style 7628 Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: Polyethylene 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-51991A020-0020-0508-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	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
	203 microns	8.00 mil	Interleave 2
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003
	838 microns	33.0 mil	Interleave 1

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
Tensile Strength	5.86 MPa	850 psi	Silicone Property; ASTM D412
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Tear Strength	21.51 kN/m	122.7 pli	[ppiw], Die B, Silicone Property; ASTM D624
Peel Strength	1.93 kN/m	11.0 pli	[ppiw], Bond Strength to 6061 aluminum (90° peel test); 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	

Processing Properties	Metric	English	Comments
	15.0 min	0.250 hour	

Cure Time Processing Properties	@Pressure 0.345 MPa, Metric Temperature 177 °C	@Pressure 50.0 psi, English Temperature 350 °F	Recommended Cure Cycle Comments
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Total Product Weight (oz/yd2)	23.5	Arlon SQA-TMS-025

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