

Arlon 51231R020 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 FiberglassSide 2: Uncured Silicone RubberInterleave 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-51231R020-0020-0508-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave 1
	76.2 microns	3.00 mil	Interleave 2
	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	Substrate; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	83	83	Silicone Property; ASTM D2240
Tensile Strength	7.329 MPa	1063 psi	Silicone Property; ASTM D412
Elongation at Break	134 %	134 %	Silicone Property; ASTM D412
Tear Strength	25.2 kN/m	144 pli	[ppiw], Die B, Silicone Property; ASTM D624
Peel Strength	0.526 kN/m	3.00 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
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Processing Properties	15.0 min Metric	0.250 hour English	Comments
Cure Time	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 7.22 °C	6.00 Month @Temperature 45.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	21.6	Arlon SQA-TMS-025

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