

Arlon 51986R020 0.020" (0.508 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 7628 Fiberglass Side 2: Uncured Silicone Rubber Interleave:

Polyethylene Product Use: Flexible heater substrate Appearance: Red colored, high viscosity gum, and rubber on fiberglass cloth 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-51986R020-0020-0508-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Side 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Interleave
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	229 microns	9.00 mil	Side 2; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	Silicone Property; ASTM D2240
Tensile Strength	5.78 MPa	838 psi	Silicone Property; ASTM D412
Elongation at Break	128 %	128 %	Silicone Property; ASTM D412
Tear Strength	15.6 kN/m	89.0 pli	[ppiw], Die B, Silicone Property; ASTM D624
Peel Strength	0.508 kN/m	2.90 pli	(S2 to S2), Bond Strength; 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	
Flammability, UL94	V-0	V-0	E54153

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric /mm	English in	Comments
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Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	5.00 min	0.0833 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	25.9	Arlon SQA-TMS-025

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China