

Arlon 51588R019 0.019" (0.483 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: Uncured Silicone RubberSubstrate: 7628 Style Fiberglass Side 2, Layer 1: Cured Silicone RubberSide 2, Layer 2: Uncured Silicone Rubber Interleave: Polyethylene Appearance: Red silicone gum and rubber on fiberglass clothThis 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-51588R019-0019-0483-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	Side 1, Silicone Property; Arlon SQA-TMS-024
	1.34 g/cc	0.0484 lb/in ³	Side 2, Layer 2, Silicone Property; Arlon SQA-TMS-024
	1.56 g/cc	0.0564 lb/in ³	Side 2, Layer 1, Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	88.9 microns	3.50 mil	Side 1; Arlon SQA-TMS-003
	88.9 microns	3.50 mil	Side 2, Layer 2; Arlon SQA-TMS-003
	102 microns	4.00 mil	Side 2, Layer 1; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	483 microns	19.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Side 1, Silicone Property; ASTM D2240
	37	37	Side 2, Layer 2, Silicone Property; ASTM D2240
	55	55	Side 2, Layer 1, Silicone Property; ASTM D2240
Tensile Strength	3.65 MPa	530 psi	Side 2, Layer 1, Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 1, Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 2, Layer 2, Silicone Property; ASTM D412

Mechanical Properties	Metric	English	Comments
Tear Strength	620 %	620 %	Side 1, Silicone Property; ASTM D412
	620 %	620 %	Side 2, Layer 2, Silicone Property; ASTM D412
	7.01 kN/m	40.0 pli	Side 2, Layer 1, Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 1, Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 2, Layer 2, Silicone Property; ASTM D624
Peel Strength	1.40 kN/m	8.00 pli	Bond Strength; ASTM D624

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	HB @Temperature 200 °C	HB @Temperature 392 °F	per card E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.7 kV/mm	728 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 204 °C	2.00 hour @Temperature 400 °F	Recommended Postcure Cycle
	15.0 min @Pressure 0.345 MPa, Temperature 177 °C	0.250 hour @Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	21.7	Arlon SQA-TMS-025

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