

Arlon R38095R011 0.011" (0.279 mm) Partially Cross Linked Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Partially Cross Linked Silicone Rubber Substrate: Style 1528 Fiberglass; Side 2: Partially Cross Linked Silicone Rubber
 Product Use: Electrical Insulation
 Appearance: Red silicone rubber on fiberglass fabric. 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-R38095R011-0011-0279-mm-Partially-Cross-Linked-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.275 g/cc	0.04606 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	38.1 microns	1.50 mil	Side 1; Arlon SQA-TMS-003
	38.1 microns	1.50 mil	Side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	279 microns	11.0 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
Shear Strength	2.76 MPa	400 psi	ASTM D1002
Tear Strength	25.2 kN/m	144 pli	Die B, Silicone Property; 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	31.5 kV/mm	800 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	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 1.67 - 7.22 °C	6.00 Month @Temperature 35.0 - 45.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	11.8	Arlon SQA-TMS-025
Uncoated Fabric Break Strength	345 lbf/in	Fill Strength, Arlon SQA-TMS-027
	409 lbf/in	Warp Strength, Arlon SQA-TMS-027

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