

Arlon R31678R016 0.0175" (0.444 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/Kapton Side 2: Uncured Silicone Rubber Appearance: Red silicone gum on fiberglass cloth with Kapton® film on opposite side. 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-R31678R016-00175-0444-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	>= 25.4 microns	>= 1.00 mil	Side 1, Kapton
	>= 50.8 microns	>= 2.00 mil	Side 1, Rubber
	76.2 microns	3.00 mil	Polyethylene, Interleave
	>= 127 microns	>= 5.00 mil	Side 2
	203 microns	8.00 mil	Prime Coated 7628 Fiberglass, Substrate
	406 - 483 microns	16.0 - 19.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	Compound Property
Tensile Strength	>= 5.52 MPa	>= 800 psi	Compound Property
Elongation at Break	>= 500 %	>= 500 %	Compound Property
Peel Strength	>= 1.05 kN/m	>= 6.00 pli	Bond Strength

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
UL RTI, Electrical	220 °C	428 °F	per UL card E63753
UL RTI, Mechanical without Impact	200 °C	392 °F	per UL card E63753
Flammability, UL94	HB	HB	Compound Rated

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 15.7 kV/mm	>= 400 kV/in	

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

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	18.4 - 21.4	
Uncoated Fabric Break Strength	200 lb/in	Fill Direction, Substrate Property
	250 lb/in	Warp Direction, Substrate Property

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