

Arlon 44250R011 0.011" (0.279 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction:Side 1: Uncured Silicone RubberAppearance: Red silicone gum 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-44250R011-0011-0279-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	38.1 microns	1.50 mil	Polyethylene Interleave
	127 microns	5.00 mil	Style 1165 Fiberglass, Substrate
	127 - 203 microns	5.00 - 8.00 mil	Side 1
	229 - 279 microns	9.00 - 11.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55 - 65	55 - 65	Compound Property
Tensile Strength	6.21 - 7.58 MPa	900 - 1100 psi	Compound Property
Elongation at Break	225 - 275 %	225 - 275 %	Compound Property
Peel Strength	>= 0.877 kN/m	>= 5.00 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	
Flammability Test	<= 3.0	<= 3.0	[in], Char Length; FTMS 191A; Method 5903
	<= 15	<= 15	[sec], Flame and Glow Time; FTMS 191A; Method 5903

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 17.3 kV/mm	>= 440 kV/in	

Processing Properties	Metric	English	Comments
	120 min	2.00 hour	

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

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	10.25 - 12.25	
Uncoated Fabric Break Strength	125 lb/in	Warp Direction, Substrate Property
	160 lb/in	Fill Direction, Substrate Property

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