

Arlon 51976R020 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 RubberSide 2: Uncured Silicone Rubber 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-51976R020-0020-0508-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	>= 76.2 microns	>= 3.00 mil	Side 1
	76.2 microns	3.00 mil	Polyethylene, Interleave
	203 microns	8.00 mil	Prime Coated 7628 Fiberglass, Substrate
	>= 229 microns	>= 9.00 mil	Side 2
	457 - 559 microns	18.0 - 22.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 70	50 - 70	Compound Property
Tensile Strength	>= 0.689 MPa	>= 100 psi	Compound Property
Elongation at Break	>= 250 %	>= 250 %	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	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 15.7 kV/mm	>= 400 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)	20.2 - 23.2	
Uncoated Fabric Break Strength	200 lb/in	Fill Direction, Substrate Property
	250 lb/in	Warp Direction, Substrate Property

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