

Arlon R33889R020 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: Layer-on-Layer 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-R33889R020-0020-0508-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	38.1 microns	1.50 mil	Polyethylene, Interleave
	>= 50.8 microns	>= 2.00 mil	Side 1, Fully Cured
	203 microns	8.00 mil	Prime Coated 7628 Fiberglass, Substrate
	>= 254 microns	>= 10.0 mil	Side 1, Uncured
	457 - 559 microns	18.0 - 22.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58 - 68	58 - 68	Compound Property
Tensile Strength	>= 6.21 MPa	>= 900 psi	Compound Property
Elongation at Break	>= 200 %	>= 200 %	Compound Property
Peel Strength	>= 0.877 kN/m	>= 5.00 pli	Bond Strength
	>= 0.877 kN/m	>= 5.00 pli	Bond vs. Copper Foil (no Primer)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.209 W/m-K	1.45 BTU-in/hr-ft ² -°F	
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	>= 15.7 kV/mm	>= 400 kV/in	

Processing Properties	Metric	English	Comments

Processing Properties	15.0 min Metric	0.250 hour English	Comments
	@Temperature 177 °C	@Temperature 350 °F	Red Cure Cycle
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	3.00 Month	3.00 Month	From date of manufacture
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	19.6 - 23.6	
Uncoated Fabric Break Strength	200 lb/in	Fill Direction, Substrate Property
	250 lb/in	Warp Direction, Substrate Property

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