

Arlon 44571B008 0.0085" (0.216 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 Rubber Side 2: Uncured Silicone RubberThis 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-44571B008-00085-0216-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	25.4 - 38.1 microns	1.00 - 1.50 mil	Side 1
	25.4 - 38.1 microns	1.00 - 1.50 mil	Side 2
	38.1 microns	1.50 mil	Polyethylene Interleave
	140 microns	5.50 mil	Prime Coated 1165 Fiberglass, Substrate
	203 - 241 microns	8.00 - 9.50 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	Compound Property
Tensile Strength	5.52 - 6.89 MPa	800 - 1000 psi	Compound Property
Elongation at Break	450 - 550 %	450 - 550 %	Compound Property
Peel Strength	>= 0.614 kN/m	>= 3.50 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	HB	HB	Compound Rated

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	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 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Black	
Total Product Weight (oz/yd2)	8.5 - 10.5	
Uncoated Fabric Break Strength	125 lb/in	Warp Direction, Substrate Property
	160 lb/in	Fill Direction, Substrate Property

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