

Arlon 55579R043 0.043" (1.09 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: Uncured layer on top of a cured layer on one side Appearance: Red silicone gum and rubber on fiberglass cloth
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-55579R043-0043-109-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	>= 43.2 microns	>= 1.70 mil	Side 1, Uncured Rubber Layer
	76.2 microns	3.00 mil	Mylar, Interleave
	127 microns	5.00 mil	Side 1, Cured Rubber Layer
	457 microns	18.0 mil	Prime Coated 162 Style Fiberglass, Substrate
	991 - 1190 microns	39.0 - 47.0 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 E54153
UL RTI, Mechanical without Impact	200 °C	392 °F	per UL card E54153
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	15.0 min	0.250 hour	Recommended Cure Cycle
	@Temperature 177 °C	@Temperature 350 °F	
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	42 - 48.8	
Uncoated Fabric Break Strength	420 lb/in	Fill Direction, Substrate Property
	700 lb/in	Warp Direction, Substrate Property

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