

## Arlon 55579R043W 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 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-55579R043W-0043-109-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-55579R043W-0043-109-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Thickness	76.2 microns	3.00 mil	Mylar, Interleave
	102 microns	4.00 mil	Side 1, Cured Rubber Layer
	457 microns	18.0 mil	Prime Coated 162 Style Fiberglass, Substrate
	>= 533 microns	>= 21.0 mil	Side 1, Uncured Rubber Layer
	1090 - 1220 microns	43.0 - 48.0 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

## Contact Songhan Plastic Technology Co.,Ltd.

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