

Arlon 48576R005 0.0055" (0.140 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 RubberSide 2: Uncured 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-48576R005-00055-0140-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	25.4 microns	1.00 mil	Side 1
	>= 25.4 microns	>= 1.00 mil	Side 2
	38.1 microns	1.50 mil	Polyethylene Interleave
	50.8 microns	2.00 mil	Unprimed Coated 1080 Fiberglass (same as 108/no plied yarns), Substrate
	63.5 microns	2.50 mil	Primed Coated 1080 Fiberglass (same as 108/no plied yarns), Substrate
	114 - 165 microns	4.50 - 6.50 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	>= 550 %	>= 550 %	Compound Property
Peel Strength	>= 0.701 kN/m	>= 4.00 pli	[ppi], 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	

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 232 °C	@Temperature 450 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature <=23.9 °C	@Temperature <=75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	4.5 - 5.5	
Uncoated Fabric Break Strength	40 lb/in	Fill Direction, Substrate Property
	70 lb/in	Warp Direction, Substrate Property

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