

Arlon 56596R045 0.045" (1.14 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 Silicone Rubber Side 2: Uncured Silicone Rubber Product Use: Flexible heater insulation Appearance: Red silicone gum and rubber on fiberglass with polymer release liners 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-56596R045-0045-114-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	76.2 microns	3.00 mil	Polyethylene, Interleave
	>= 127 microns	>= 5.00 mil	Side 1
	432 microns	17.0 mil	Prime Coated 1564 Fiberglass, Substrate
	>= 584 microns	>= 23.0 mil	Side 2
	1120 - 1190 microns	44.0 - 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	

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	

Processing Properties	Metric ¹	English ²	Comments Recommended Posture Cycle
	@Temperature 232 °C	@Temperature 450 °F	
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	45 - 51	
Uncoated Fabric Break Strength	350 lb/in	Fill Direction, Substrate Property
	400 lb/in	Warp Direction, Substrate Property

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