

Arlon 51591R015 0.015" (0.381 mm) Uncured 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: Cured Silicone Rubber Product Use: Flexible heater insulation Appearance: Red silicone gum 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-51591R015-0015-0381-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	>= 63.5 microns	>= 2.50 mil	Side 1
	>= 63.5 microns	>= 2.50 mil	Side 2
	76.2 microns	3.00 mil	Polyethylene, Interleave
	203 microns	8.00 mil	Prime Coated 7628 Fiberglass, Substrate
	343 - 419 microns	13.5 - 16.5 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Compound Property
Tensile Strength	>= 4.83 MPa	>= 700 psi	Compound Property
Elongation at Break	>= 200 %	>= 200 %	Compound Property
Peel Strength	>= 0.877 kN/m	>= 5.00 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	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	

Processing Properties	Metric	English	Comments
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 18.3 - 23.9 °C	6.00 Month @Temperature 65.0 - 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	14.7 - 17.7	
Uncoated Fabric Break Strength	200 lb/in	Fill Direction, Substrate Property
	250 lb/in	Warp Direction, Substrate Property

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