

Arlon 51581R018 0.018" Uncured Silicone Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone, Molded, Glass Fiber Filled

Material Notes:

Design/Construction: Interleave: 3 mil Polyethylene Side 1: Uncured Silicone Rubber Substrate: Prime Coated 7628 Fiberglass Side 2: Uncured Silicone Rubber This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-51581R018-0018-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	127 microns	5.00 mil	Side 1
	127 microns	5.00 mil	Side 2
	203 microns	8.00 mil	Substrate
	457 microns	18.0 mil	Overall Thickness

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	Silicone Property
Tensile Strength	6.21 MPa	900 psi	Silicone Property
Elongation at Break	600 %	600 %	Silicone Property
Peel Strength	>= 1.05 kN/m	>= 6.00 pli	Bond Strength

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	HB	HB	File E54153

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 Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	

Processing Properties	Metric	English	Recommended Cure Cycle Comments
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	18.6	
Uncoated Fabric Break Strength (lb/in)	200	Fill Direction
	250	Warp Direction

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