

Arlon 44426R010 0.010" Cured/Uncured Silicone Rubber Laminate with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: 0.003" Polyethylene
Side 1: Cured Silicone Rubber
Side 2: Uncured Silicone Rubber
Substrate: Prime Coated 1165 Fiberglass
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-44426R010-0010-CuredUncured-Silicone-Rubber-Laminate-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	50.8 microns	2.00 mil	Side 1
	76.2 microns	3.00 mil	Side 2
	140 microns	5.50 mil	Substrate
	254 microns	10.0 mil	Overall Thickness

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	Silicone Property
Tensile Strength	>= 5.52 MPa	>= 800 psi	Silicone Property
Elongation at Break	>= 300 %	>= 300 %	Silicone Property
Peel Strength	>= 0.877 kN/m	>= 5.00 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 Test	3.0	3.0	Inches; Char Length
	25	25	Seconds; Flame and Glow Time

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

Processing Properties	@Temperature 204 °C Metric	@Temperature 400 °F English	Comments
	15.0 min	0.250 hour	
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	12.3	
Uncoated Fabric Break Strength (lb/in)	125	Warp Direction, Substrate Property
	160	Fill Direction, Substrate Property

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