

Arlon 51946C015A 0.015" (0.381 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 RubberSide 2: Uncured Silicone Rubber 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-51946C015A-0015-0381-mm-UncuredCured-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
	356 - 406 microns	14.0 - 16.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 60	50 - 60	Compound Property
Tensile Strength	>= 6.89 MPa	>= 1000 psi	Compound Property
Elongation at Break	>= 450 %	>= 450 %	Compound Property

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	V-0	V-0	per card E54153

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 Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °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	Brown	
Total Product Weight (oz/yd2)	15.3 - 18.3	
Uncoated Fabric Break Strength	200 lb/in	Fill Direction, Substrate Property
	250 lb/in	Warp Direction, Substrate Property

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