

Arlon 75400R045 0.045" (1.14 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction:Side 1: Uncured Silicone RubberThis 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-75400R045-0045-114-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	76.2 microns	3.00 mil	Polyethylene , Interleave
	330 microns	13.0 mil	7500 Fiberglass, Substrate
	737 - 889 microns	29.0 - 35.0 mil	Side 1
	1070 - 1220 microns	42.0 - 48.0 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 60	50 - 60	Compound Property
Tensile Strength	6.21 - 7.58 MPa	900 - 1100 psi	Compound Property
Elongation at Break	450 - 550 %	450 - 550 %	Compound Property
Tear Strength	>= 35.1 kN/m	>= 200 pli	
Peel Strength	>= 1.75 kN/m	>= 10.0 pli	Bond Strength
Compression Set	<= 28 %	<= 28 %	after post cure

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	30.0 min	0.500 hour	Recommended Cure Cycle
	@Temperature 177 °C	@Temperature 350 °F	

Processing Properties	Metric	English	Comments
	@Temperature 204 °C	@Temperature 400 °F	after 30 minute ramp up cycle, Recommended Postcure Cycle
Shelf Life	3.00 Month	3.00 Month	From date of manufacture
	@Temperature 4.44 °C	@Temperature 40.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	38.1 - 46.5	
Uncoated Fabric Break Strength	250 lb/in	Fill Direction, Substrate Property
	300 lb/in	Warp Direction, Substrate Property

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