

Arlon 49091R010 0.0105" (0.267 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 Rubber Side 2: Uncured Silicone Rubber Appearance: Red silicone gum on fiberglass fabric 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-49091R010-00105-0267-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	>= 50.8 microns	>= 2.00 mil	Side 1; Arlon SQA-TMS-003
	>= 50.8 microns	>= 2.00 mil	Side 2; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Polyethylene, Interleave
	140 microns	5.50 mil	Prime Coated 1681 Fiberglass, Substrate; Arlon SQA-TMS-003
	229 - 305 microns	9.00 - 12.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	Compound Property
Tensile Strength	>= 5.52 MPa	>= 800 psi	Compound Property
Elongation at Break	>= 500 %	>= 500 %	Compound Property
Peel Strength	>= 1.05 kN/m	>= 6.00 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	
Flammability Test	<= 6.0	<= 6.0	[in], Char Length; FAR 25.853 App.F, P.1,.Aii
	<= 15	<= 15	[sec], Flame Time; FAR 25.853 App.F, P.1,.Aii

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	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	9.9 - 11.9	
Uncoated Fabric Break Strength	110 lb/in	Fill Direction, Substrate Property
	195 lb/in	Warp Direction, Substrate Property

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