

Arlon 47091R012 0.012" (0.305 mm) Uncured Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Side 1: Uncured Rubber Side 2: Uncured Rubber Appearance: Red silicone gum on polymer liner 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-47091R012-0012-0305-mm-Uncured-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	38.1 - 114 microns	1.50 - 4.50 mil	Side 2
	76.2 microns	3.00 mil	Polyethylene Interleave
	102 microns	4.00 mil	Prime Coated 2113 Fiberglass, Substrate
	88.9 - 165 microns	3.50 - 6.50 mil	Side 1
	267 - 343 microns	10.5 - 13.5 mil	Overall

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	Compound Property
Tensile Strength	5.58 - 6.83 MPa	810 - 990 psi	Compound Property
Elongation at Break	450 - 550 %	450 - 550 %	Compound Property
Peel Strength	>= 1.40 kN/m	>= 8.00 pli	[ppi], 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 Appendix F, Part 1, Section A.1.i
	<= 15	<= 15	[sec], Flame Time; FAR 25.853 Appendix F, Part 1, Section A.1.i

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 118 kV/mm	>= 3000 kV/in	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	@Temperature 177 °C	@Temperature 350 °F	Recommended Cure Cycle
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	11.6 - 13.6	
Uncoated Fabric Break Strength	195 lb/in	Warp Direction, Substrate Property
	75 lb/in	Fill Direction, Substrate Property

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