

Arlon 55090R028 0.028 (0.711 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 RubberAppearance: Red silicone gum on fiberglass fabricThis 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-55090R028-0028-0711-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Thickness	76.2 microns	3.00 mil	Polyethylene, Interleave
	254 microns	10.0 mil	Side 1
	457 microns	18.0 mil	Prime Coated 162 Fiberglass, Substrate
	711 microns	28.0 mil	Overall

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	<= 3.0	<= 3.0	[in], Char Length; FAR 25.853, Appendix F, Part 1, Section A.1.ii
	<= 15	<= 15	[sec], Flame Time; FAR 25.853, Appendix F, Part 1, Section A.1.ii

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	

Processing Properties	Metric	English	Comments
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Processing Properties	15.0 min Metric	0.250 hour English	Comments
	@Temperature 177 °C	@Temperature 350 °F	Recommended Cure Cycle
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 232 °C	@Temperature 450 °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)	26.1 - 32.1	
Uncoated Fabric Break Strength	420 lb/in	Fill Direction, Substrate Property
	700 lb/in	Warp Direction, Substrate Property

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