

Arlon 48B10R005 0.005" (0.127 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: PolyethyleneSide 1: Uncured Silicone RubberSubstrate: Style 1080 FiberglassThis data represents typical values for the production material. The data should not be used to write, or in place of, material specificationsInformation provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-48B10R005-0005-0127-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	Side 1; Arlon SQA-TMS-003
	63.5 microns	2.50 mil	Interleave
	76.2 microns	3.00 mil	Substrate; Arlon SQA-TMS-003
	127 microns	5.00 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
Tensile Strength	6.72 MPa	975 psi	Silicone Property; ASTM D412
Elongation at Break	275 %	275 %	Silicone Property; ASTM D412
Tear Strength	9.64 kN/m	55.0 pli	Die B, Silicone Property; ASTM D624
Peel Strength	0.701 kN/m	4.00 pli	Bond Strength; Arlon SQA-TMS-011

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	>= 1.0	>= 1.0	[sec], Flame and Glow; FAR 25.853 App.F, P.1.,Aii
	>= 1.0	>= 1.0	[in], Char Length; FAR 25.853 App.F, P.1.,Aii

Electrical Properties	Metric	English	Comments
Dielectric Strength	35.4 kV/mm	900 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 149 °C	@Pressure 50.0 psi, Temperature 300 °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	
	Red	Substrate
Total Product Weight (oz/yd2)	4.8	Arlon SQA-TMS-025

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