

Arlon 514B12R006 0.006" Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: 1.5 mil Polyethylene Side 1: Cured Silicone Rubber Substrate: Style 2116 Fiberglass This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-514B12R006-0006-Cured-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
	102 microns	4.00 mil	Substrate; Arlon SQA-TMS-003
	152 microns	6.00 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.72 MPa	830 psi	Silicone Property; ASTM D412
Elongation at Break	150 %	150 %	Silicone Property; ASTM D412
Tear Strength	9.64 kN/m	55.0 pli	Silicone Property; Die B; ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability Test	0.25	0.25	Inches; Char Length; FAR 25.853 App F, Pt. 1, S. Aii
	1.0	1.0	Seconds; Flame and Glow Time; FAR 25.853 App F, Pt. 1, S. Aii

Electrical Properties	Metric	English	Comments
Dielectric Strength	59.1 kV/mm	1500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
	120 min	2.00 hour	

Cure Time Processing Properties	Metric @ Temperature 204 °C	English @ Temperature 400 °F	Recommended Post Cure Cycle Comments
Shelf Life	60.0 Month @Temperature 23.9 °C	60.0 Month @Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	5.6	Arlon SQA-TMS-025

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