

Arlon 54331R014 0.014" Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave 1: Blue LDPE Side 1: Uncured Silicone Rubber Substrate: Style 2116 Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: Blue LDPE 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-54331R014-0014-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	102 microns	4.00 mil	Substrate; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 2; Arlon SQA-TMS-003
	356 microns	14.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	Silicone Property; ASTM D2240
Tensile Strength	8.27 MPa	1200 psi	Silicone Property; ASTM D412
Elongation at Break	200 %	200 %	Silicone Property; ASTM D412
Peel Strength	0.631 kN/m	3.60 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 149 °C	@Pressure 50.0 psi, Temperature 300 °F	
	6.00 Month	6.00 Month	

Shelf Life	Metric	English	Comments
Processing Properties	@ Temperature 21.1 °C	@ Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	13.8	Arlon SQA-TMS-025

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