

Arlon R38041X012 0.012" (0.305 mm) Uncured Fluorosilicone with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave 1: Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 2116 Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: Polyethylene Appearance: Gray silicone gum and on fiberglass cloth 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-R38041X012-0012-0305-mm-Uncured-Fluorosilicone-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.81 g/cc	0.0654 lb/in ³	Fluorosilicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave 1
	63.5 microns	2.50 mil	Interleave 2
	102 microns	4.00 mil	Side 1; Arlon SQA-TMS-003
	102 microns	4.00 mil	Side 2; Arlon SQA-TMS-003
	102 microns	4.00 mil	Substrate; Arlon SQA-TMS-003
	305 microns	12.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	Fluorosilicone Property; ASTM D2240
Tensile Strength	3.85 MPa	558 psi	Fluorosilicone Property; ASTM D412
Elongation at Break	82 %	82 %	Fluorosilicone Property; ASTM D412
Tear Strength	4.91 kN/m	28.0 pli	Die B, Silicone Property; ASTM D624
Peel Strength	0.193 kN/m	1.10 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	

Processing Properties	Metric	English	Comments
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Processing Properties	120 min Metric	2.00 hour English	Comments Jed Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °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	Dark Gray	
	White	Substrate
Fuel Resistance	11.9	Fuel CM85 Resistance, ASTM D471
	18.7	Fuel C Resistance, ASTM D471
	6	Fuel A Resistance, ASTM D471
Total Product Weight (oz/yd2)	13.4	Arlon SQA-TMS-025, Product Property
	81.4	Arlon SQA-TMS-025, Fluorosilicone Property

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China