

Arlon 19146R025 0.025" (0.635 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 1523 Fiberglass Side 2: Uncured Silicone Rubber Interleave:

Polyethylene Appearance: Black silicone gum and rubber 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-19146R025-0025-0635-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	102 microns	4.00 mil	Side 1; Arlon SQA-TMS-003
	178 microns	7.00 mil	Side 2; Arlon SQA-TMS-003
	356 microns	14.0 mil	Substrate; Arlon SQA-TMS-003
	635 microns	25.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Silicone Property; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	Die B, ppiw, Silicone Property; ASTM D624
Peel Strength	1.35 kN/m	7.70 pli	Bond Strength (S2 to S2); 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	
UL RTI, Electrical	200 °C	392 °F	E54153
UL RTI, Mechanical without Impact	200 °C	392 °F	E54153
Flammability Test	<= 3.0	<= 3.0	[in], Char Length

Thermal Properties	Metric	English	Comments (Peak and Glow Total), Glow Time

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.5 kV/mm	469 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended 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	Red	
	Red	Substrate
Total Product Weight (oz/yd ²)	29.2	Arlon SQA-TMS-025
Uncoated Fabric Break Strength	300 lb/in	Fill Direction, Substrate Property
	450 lb/in	Warp Direction, Substrate Property

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