

Arlon R35928R025 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: Interleave: Polyethylene Side 1, Layer 2: Uncured Silicone Rubber Side 1, Layer 1: Cured Silicone Rubber Substrate: Style 7628 Fiberglass Side 2: Cured Silicone Rubber Appearance: Red silicone gum on fiberglass fabric. 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-R35928R025-0025-0635-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	19.0 microns	0.750 mil	Side 1, Cured Layer; Arlon SQA-TMS-003
	19.0 microns	0.750 mil	Side 2; Arlon SQA-TMS-003
	38.1 microns	1.50 mil	Interleave
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	394 microns	15.5 mil	Side 1, Uncured Layer; Arlon SQA-TMS-003
	635 microns	25.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Silicone Property; ASTM D2240
Tensile Strength	6.07 MPa	880 psi	Silicone Property; ASTM D412
Elongation at Break	470 %	470 %	Silicone Property; ASTM D412
Peel Strength	1.93 kN/m	11.0 pli	Bond Strength; ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.6 kV/mm	600 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	Recommended Postcure Cycle
	@Temperature 191 - 210 °C	@Temperature 375 - 410 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	32.4	Arlon SQA-TMS-025

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