

Arlon R35948R015 0.0155" (0.394 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 RubberSide 1, Layer 1: Cured Silicone Rubber Substrate: Style 7628 Fiberglass Side 2: Cured Silicone RubberThis 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-R35948R015-00155-0394-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in³	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
	152 microns	6.00 mil	Side 1, Uncured Layer; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	394 microns	15.5 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	Silicone Property; ASTM D2240
Tensile Strength	4.14 MPa	600 psi	Silicone Property; ASTM D412
Elongation at Break	1000 %	1000 %	Silicone Property; ASTM D412
Peel Strength	1.40 kN/m	8.00 pli	Bond Strength; ASTM D624

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft²-°F	ASTM E 1530
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	23.6 kV/mm Metric	600 kV/in English	ASTM D149 Comments
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Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 141 °C	0.250 hour @Temperature 285 °F	Recommended Cure Cycle
	120 min @Temperature 204 °C	2.00 hour @Temperature 400 °F	Recommended Postcure Cycle
Shelf Life	3.00 Month @Temperature 23.9 °C	3.00 Month @Temperature 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	16	Arlon SQA-TMS-025

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