

Arlon 55578R036 0.036" (0.914 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 2, Layer 2: Uncured Silicone Rubber Side 2, Layer 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass Side 1: Cured Silicone Rubber Appearance: Red silicone gum and/or 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-55578R036-0036-0914-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	Side 2, Layer 2; Compound Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in ³	Side 1 and Side 2, Layer 1; Compound Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	152 microns	6.00 mil	Side 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	Side 2, Layer 1; Arlon SQA-TMS-003
	203 microns	8.00 mil	Side 2, Layer 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	914 microns	36.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Side 2, Layer 2; Compound Property; ASTM D2240
	52	52	Side 1 and Side 2, Layer 1; Compound Property; ASTM D2240
Tensile Strength	6.14 MPa	890 psi	Side 1 and Side 2, Layer 1; Compound Property; ASTM D412
	7.58 MPa	1100 psi	Side 2, Layer 2; Compound Property; ASTM D412
Elongation at Break	550 %	550 %	Side 1 and Side 2, Layer 1; Compound Property; ASTM D412
	650 %	650 %	Side 2, Layer 2; Compound Property; ASTM D412
Peel Strength	5.08 kN/m	29.0 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	
UL RTI, Electrical	220 °C	428 °F	E54153
UL RTI, Mechanical without Impact	200 °C	392 °F	E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Recommended Cure Cycle
	@Temperature 177 °C	@Temperature 350 °F	
	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °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	
Total Product Weight (oz/yd ²)	36.9	Arlon SQA-TMS-025

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