

Arlon R37652R0055 0.0055" (0.140 mm) Cured Silicone Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 2113 Fiberglass Appearance: Red silicone 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-R37652R0055-00055-0140-mm-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	Side 1; Arlon SQA-TMS-003
	88.9 microns	3.50 mil	Substrate; Arlon SQA-TMS-003
	140 microns	5.50 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.72 MPa	830 psi	Silicone Property; ASTM D412
Elongation at Break	150 %	150 %	Silicone Property; ASTM D412
Tear Strength	9.64 kN/m	55.0 pli	Die B, Silicone Property; 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	
Flammability Test	1.0	1.0	[sec], Flame and Glow; FAR 25.853 App. F, P.1, S.Aii
	2.0	2.0	[in], Char Length; FAR 25.853 App. F, P.1, S.Aii

Electrical Properties	Metric	English	Comments
Dielectric Strength	25.6 kV/mm	650 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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Processing Properties	120 min Metric	2.00 hour English	Comments
	@Temperature 191 °C	@Temperature 375 °F	Recommended Postcure Cycle
Shelf Life	60.0 Month	60.0 Month	From date of manufacture
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	6	Arlon SQA-TMS-025

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