

Arlon 55579R055 0.054" (1.37 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 Layer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: 162 Style

Fiberglass Appearance: Red 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-55579R055-0054-137-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	Layer 1, Silicone Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in ³	Layer 2, Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Layer 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Interleave
	457 microns	18.0 mil	Substrate; Arlon SQA-TMS-003
	838 microns	33.0 mil	Layer 2; Arlon SQA-TMS-003
	1370 microns	54.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Layer 1, Silicone Property; ASTM D2240
	52	52	Layer 2, Silicone Property; ASTM D2240
Tensile Strength	6.14 MPa	890 psi	Layer 2, Silicone Property; ASTM D412
	7.58 MPa	1100 psi	Layer 1, Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Layer 2, Silicone Property; ASTM D412
	650 %	650 %	Layer 1, Silicone Property; ASTM D412
Peel Strength	6.89 kN/m	39.3 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air			

Thermal Properties	232 °C Metric	450 °F English	Comments
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	25.0 kV/mm	635 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 177 °C	@Pressure 50.0 psi, Temperature 350 °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/yd2)	51.8	Arlon SQA-TMS-025

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China