

Arlon 55589R033 0.033" (0.838 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 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-55589R033-0033-0838-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	Layer 1, Silicone Property; Arlon SQA-TMS-024
	1.56 g/cc	0.0564 lb/in ³	Layer 2, Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave
	152 microns	6.00 mil	Layer 1; Arlon SQA-TMS-003
	279 microns	11.0 mil	Layer 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	838 microns	33.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Layer 1, Silicone Property; ASTM D2240
	55	55	Layer 2, Silicone Property; ASTM D2240
Tensile Strength	3.65 MPa	530 psi	Layer 2, Silicone Property; ASTM D412
	6.55 MPa	950 psi	Layer 1, Silicone Property; ASTM D412
Elongation at Break	300 %	300 %	Layer 2, Silicone Property; ASTM D412
	620 %	620 %	Layer 1, Silicone Property; ASTM D412
Tear Strength	7.01 kN/m	40.0 pli	Layer 2, Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Layer 1, Silicone Property; ASTM D624

Peel Strength Mechanical Properties	1.53 kN/m Metric	8.70 psi English	Bond Strength; ASTM D624 Comments
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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	20.1 kV/mm	510 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	
Total Product Weight (oz/yd2)	36.2	Arlon SQA-TMS-025

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