

Arlon 55591R062 0.062" (1.57 mm) Uncured Silicone Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

Material Notes:

Design/Construction: Interleave 1: PolyethyleneSide 1: Uncured Silicone Rubber Substrate: Style 162 FiberglassSide 2: Uncured Silicone RubberInterleave 2: Polyethylene Product Use: Electrical insulationAppearance: Red silicone gum on fiberglass with polymer release linersThis 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-55591R062-0062-157-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	63.5 microns	2.50 mil	Interleave 1
	63.5 microns	2.50 mil	Interleave 2
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	584 microns	23.0 mil	Side 1; Arlon SQA-TMS-003
	584 microns	23.0 mil	Side 2; Arlon SQA-TMS-003
	1570 microns	62.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	52	52	Silicone Property; ASTM D2240
Tensile Strength	6.72 MPa	975 psi	Silicone Property; ASTM D412
Elongation at Break	300 %	300 %	Silicone Property; ASTM D412
Tear Strength	12.3 kN/m	70.0 pli	Die B, Silicone Property; ASTM D624
Peel Strength	2.16 kN/m	12.3 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	

Electrical Properties	Metric	English	Comments

Dielectric Strength Electrical Properties	15.7 kV/mm Metric	400 kV/in English	ASTM D149 Comments
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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 121 °C	@Pressure 50.0 psi, Temperature 250 °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)	60	Arlon SQA-TMS-025

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