

Arlon 18609R023 0.023" (0.584 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction:Interleave: PolyethyleneLayer 1: Cured Silicone RubberLayer 2: Uncured Silicone RubberSubstrate: 11523 Style FiberglassThis 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-18609R023-0023-0584-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Layer 1; Arlon SQA-TMS-003
	152 microns	6.00 mil	Layer 2; Arlon SQA-TMS-003
	330 microns	13.0 mil	Substrate; Arlon SQA-TMS-003
	584 microns	23.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	Silicone Property; ASTM D2240
Tensile Strength	7.93 MPa	1150 psi	Silicone Property; ASTM D412
Elongation at Break	350 %	350 %	Silicone Property; ASTM D412
Tear Strength	16.7 kN/m	95.0 pli	Silicone Property; ASTM D624
Peel Strength	2.77 kN/m	15.8 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	
Flammability, UL94	HB @Temperature 220 °C	HB @Temperature 428 °F	per card E54153

Electrical Properties	Metric	English	Comments
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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 @Temperature 204 °C	2.00 hour @Temperature 400 °F	Recommended Postcure Cycle
	15.0 min @Pressure 0.345 MPa, Temperature 177 °C	0.250 hour @Pressure 50.0 psi, Temperature 350 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	27.2	Arlon SQA-TMS-025

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