

Arlon 51808R011 0.011" (0.279 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 Side 2: Uncured Silicone Rubber Substrate: Style 7628 Fiberglass Side 1: Cured Silicone Wash Coat 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-51808R011-0011-0279-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	<= 12.7 microns	<= 0.500 mil	Side 1; Arlon SQA-TMS-003
	63.5 microns	2.50 mil	Interleave
	76.2 microns	3.00 mil	Side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	279 microns	11.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	51	51	Silicone Property; ASTM D2240
Tensile Strength	8.07 MPa	1170 psi	Silicone Property; ASTM D412
Elongation at Break	560 %	560 %	Silicone Property; ASTM D412
Peel Strength	1.53 kN/m	8.70 pli	(S1 to S2), Bond Strength; Arlon SQA-TMS-011
	2.23 kN/m	12.7 pli	(S2 to S2), Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	

Processing Properties	Metric _{in}	English _{our}	Comments
	@Pressure 0.345 MPa, Temperature 177 °C	@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)	11.8	Arlon SQA-TMS-025

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