

Arlon 51044R020 0.020" Semi-Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: 2.5 mil Polyethylene Side 1: Semi-cured Silicone Rubber Substrate: Style 7628 Fiberglass This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-51044R020-0020-Semi-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	305 microns	12.0 mil	Silicone; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	Silicone Property; Arlon SQA-TMS-014
Tensile Strength	7.481 MPa	1085 psi	Silicone Property; Arlon SQA-TMS-008
Elongation at Break	429 %	429 %	Silicone Property; Arlon SQA-TMS-008
Peel Strength	2.44 kN/m	13.9 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	204 °C	400 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.7 kV/mm	730 kV/in	Arlon SQA-TMS-020

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	

Processing Properties	Metric	English	Comments
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	led Cure Cycle
Shelf Life	3.00 Month @Temperature 21.1 °C	3.00 Month @Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	20.6	Arlon SQA-TMS-025

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