

Arlon 51583R018 0.018" Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave 1: 2.5 mil LDPE Side 1: Cured Silicone Rubber Substrate: Style 7628 Fiberglass Side 2: Cured Silicone Rubber Interleave 2: 2.5 mil LDPE 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-51583R018-0018-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	457 microns	18.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Silicone Property; Arlon SQA-TMS-014
Tensile Strength	6.55 MPa	950 psi	Silicone Property; Arlon SQA-TMS-008
Elongation at Break	620 %	620 %	Silicone Property; Arlon SQA-TMS-008
Tear Strength	26.3 kN/m	150 pli	Silicone Property; Arlon SQA-TMS-029

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

Electrical Properties	Metric	English	Comments
Dielectric Strength	37.0 kV/mm	940 kV/in	Arlon SQA-TMS-020

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle

Processing Properties	@Temperature 204 °C Metric	@Temperature 400 °F English	Comments
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	16.4	Arlon SQA-TMS-025

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