

## Arlon 44602W020W 0.020" (0.508 mm) Cured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Cured Silicone Rubber Substrate: Style 1165 FiberglassProduct is designed to meet the FAR 25.853 App.F, P.1.,Aii flame resistance requirements but is not recognized by an FAA test Laboratory.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-44602W020W-0020-0508-mm-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-44602W020W-0020-0508-mm-Cured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Substrate; Arlon SQA-TMS-003
	406 microns	16.0 mil	Side 1; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	Silicone Property; ASTM D2240
Tensile Strength	7.86 MPa	1140 psi	Silicone Property; ASTM D412
Elongation at Break	340 %	340 %	Silicone Property; ASTM D412
Tear Strength	17.0 kN/m	97.0 pli	[ppiw], Die B, Silicone Property; 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	HB	per card E54153
	@Temperature 220 °C	@Temperature 428 °F	
Flammability Test	0.30	0.30	[in], Char Length; FAR 25.853 App.F, P.1.,Aii
	10.4	10.4	[sec], Flame and Afterglow; FAR 25.853 App.F, P.1.,Aii

Electrical Properties	Metric	English	Comments
Dielectric Strength	34.9 kV/mm	886 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 204 °C	2.00 hour @Temperature 400 °F	Recommended Postcure Cycle
Shelf Life	60.0 Month @Temperature 21.1 °C	60.0 Month @Temperature 70.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	White	
	White	Substrate
Total Product Weight (oz/yd2)	19.5	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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