

## Arlon 51576R016A 0.016" (0.406 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 1: Cured Silicone Rubber Substrate: 7628 Style Fiberglass Side 2: Uncured Silicone Rubber 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-51576R016A-0016-0406-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-51576R016A-0016-0406-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Side 1; Arlon SQA-TMS-003
	102 microns	4.00 mil	Side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	406 microns	16.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45	45	Silicone Property; ASTM D2240
Tensile Strength	6.21 MPa	900 psi	Silicone Property; ASTM D412
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Peel Strength	1.58 kN/m	9.00 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	
UL RTI, Electrical	220 °C	428 °F	
UL RTI, Mechanical without Impact	200 °C	392 °F	
Flammability, UL94	HB	HB	

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/yd <sup>2</sup> )	20.1	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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