

## Arlon 51250R016 0.016" (0.406 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Uncured Silicone RubberSubstrate: Style 7628 FiberglassThis 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-51250R016-0016-0406-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-51250R016-0016-0406-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	203 microns	8.00 mil	Side 1; 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	50	50	Silicone Property; ASTM D2240
Tensile Strength	6.03 MPa	875 psi	Silicone Property; ASTM D412
Elongation at Break	450 %	450 %	Silicone Property; ASTM D412
Tear Strength	17.2 kN/m	98.0 pli	[ppiw], Die B, Silicone Property; ASTM D624
Peel Strength	1.40 kN/m	8.00 pli	[ppiw], Bond Strength (S1 to S2); 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	26.1 kV/mm	664 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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Processing Properties	120 min Metric	2.00 hour English	Comments
	@Temperature 204 °C	@Temperature 400 °F	Recommended Postcure Cycle
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	15.8	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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