

## Arlon 51981XA015 0.0150" Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave 1: 2.5 mil Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 7628 Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: 2.5 mil Polyethylene 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-51981XA015-00150-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-51981XA015-00150-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	88.9 microns	3.50 mil	Side 1; Arlon SQA-TMS-003
	88.9 microns	3.50 mil	Side 2; Arlon SQA-TMS-003
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	381 microns	15.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	Silicone Property; Arlon SQA-TMS-014
Tensile Strength	5.78 MPa	838 psi	Silicone Property; Arlon SQA-TMS-008
Elongation at Break	128 %	128 %	Silicone Property; Arlon SQA-TMS-008
Tear Strength	15.6 kN/m	89.0 pli	Die B; Silicone Property; Arlon SQA-TMS-029
Peel Strength	0.701 kN/m	4.00 pli	Bond Strength (S2 to S2); 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	
Flammability, UL94	V-0	V-0	ARLON SQA-TMS-019

Electrical Properties	Metric	English	Comments
Dielectric Strength	32.9 kV/mm	835 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	
	1.50 min	0.0250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Grey	Product
	Natural	Substrate
Total Product Weight (oz/yd2)	18.6	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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