

## Arlon 51588R015 0.015" Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: LDPE Side 1 Layer 2: Uncured Silicone Rubber Side 1 Layer 1: Cured Silicone Rubber Substrate: Style 7628  
Fiberglass Side 2: Uncured Silicone Rubber Interleave: 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-51588R015-0015-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-51588R015-0015-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	Side 1 Uncured Silicone Property; Arlon SQA-TMS-024
	1.32 g/cc	0.0477 lb/in <sup>3</sup>	Side 2 Silicone Property; Arlon SQA-TMS-024
	1.56 g/cc	0.0564 lb/in <sup>3</sup>	Side 1 Cured Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Side 1 Layer 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Side 1 Layer 2; Arlon SQA-TMS-003
	76.2 microns	3.00 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	37	37	Side 1 Uncured Silicone Property; ASTM D2240
	37	37	Side 2 Silicone Property; ASTM D2240
	50	50	Side 1 Cured Silicone Property; ASTM D2240
Tensile Strength	2.90 MPa	420 psi	Side 1 Cured Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 1 Uncured Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 2 Silicone Property; ASTM D412
Elongation at Break	500 %	500 %	Side 1 Cured Silicone Property; ASTM D412

Mechanical Properties	670 % Metric	670 % English	Side 1 Uncured Silicone Property; ASTM D412
	670 %	670 %	Side 2 Silicone Property; ASTM D412
Tear Strength	9.64 kN/m	55.0 pli	Side 1 Cured Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 1 Uncured Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 2 Silicone Property; ASTM D624
Peel Strength	1.23 kN/m	7.00 pli	Bond Strength; Arlon SQA-TMS-011

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	35.4 kV/mm	900 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 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	Red	
Total Product Weight (oz/yd2)	16.9	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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