

## Arlon 47571R012 0.012" Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: LDPE Side 1: Uncured Silicone Rubber Substrate: Style 2113 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-47571R012-0012-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-47571R012-0012-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Side 1; Arlon SQA-TMS-003
	102 microns	4.00 mil	Substrate; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 2; Arlon SQA-TMS-003
	305 microns	12.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	36	36	Silicone Property; ASTM D2240
Tensile Strength	6.21 MPa	900 psi	Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Silicone Property; ASTM D412
Tear Strength	14.0 kN/m	80.0 pli	Silicone Property; ASTM D624
Peel Strength	2.56 kN/m	14.6 pli	Bond Strength (S1 to S2); 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	
Flammability Test	1.1	1.1	Inches; Char Length; FAR 25.853 App F, Pt. 1, S. A1ii
	6.3	6.3	Seconds; Flame and Glow Time; FAR 25.853 App F, Pt. 1, S. A1ii

Electrical Properties	Metric	English	Comments
Dielectric Strength	33.3 kV/mm	845 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
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 177 °C	@Pressure 50.0 psi, Temperature 350 °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)	10.7	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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