

## Arlon R38081R030 0.030" (0.762 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave 1: Polyethylene Side 1: Uncured Silicone RubberSubstrate: Style 1165 FiberglassSide 2: Uncured SiliconeInterleave 2: Polyethylene 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-R38081R030-0030-0762-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-R38081R030-0030-0762-mm-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	Interleave 1
	76.2 microns	3.00 mil	Interleave 2
	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Substrate; Arlon SQA-TMS-003
	508 microns	20.0 mil	Side 2; Arlon SQA-TMS-003
	762 microns	30.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	47	47	Silicone Property; ASTM D2240
Tensile Strength	8.853 MPa	1284 psi	Silicone Property; ASTM D412
Elongation at Break	449 %	449 %	Silicone Property; ASTM D412
Tear Strength	18.9 kN/m	108 pli	Die B, Silicone Property; ASTM D624
Peel Strength	4.58 kN/m	26.1 pli	Bond Strength; 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	
Flammability Test	1.5	1.5	[in], Char Length; FAR 25.853 App. F, P.1, S.Aii
	8.0	8.0	[sec], Flame Time; FAR 25.853 App. F, P.1, S.Aii

Electrical Properties	Metric	English	Comments
Dielectric Strength	31.9 kV/mm	811 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure 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	From date of manufacture
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Blue	Interleave 2
	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	29	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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