

## Arlon 48271R010 0.010" (0.254 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 1080 FiberglassSide 2: Uncured Silicone RubberInterleave 2: Polyethylene Product Use: Flexible heater insulationAppearance: Red silicone gum on fiberglass fabricThis 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-48271R010-0010-0254-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-48271R010-0010-0254-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Substrate; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Interleave 1
	76.2 microns	3.00 mil	Interleave 2
	88.9 microns	3.50 mil	Side 1; Arlon SQA-TMS-003
	88.9 microns	3.50 mil	Side 2; Arlon SQA-TMS-003
	254 microns	10.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Silicone Property; ASTM D2240
Tensile Strength	5.52 MPa	800 psi	Silicone Property; ASTM D412
Elongation at Break	225 %	225 %	Silicone Property; ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	[ppiw], Die B, Silicone Property; ASTM D624
Peel Strength	0.894 kN/m	5.10 pli	(S1 to S2) 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	
UL RTI, Electrical	220 °C	428 °F	E54153

UL RTI Mechanical without Impact Thermal Properties	220 °C Metric	428 °F English	E54153 Comments
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Electrical Properties	Metric	English	Comments
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Dielectric Strength	3.15 kV/mm	80.0 kV/in	ASTM D149
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Processing Properties	Metric	English	Comments
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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 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
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Color	Red	
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Total Product Weight (oz/yd2)	9.5	Arlon SQA-TMS-025
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## Contact Songhan Plastic Technology Co.,Ltd.

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