

## Arlon 56141R025 0.025" (0.635 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: Polyethylene Side 2: Uncured Silicone Rubber Substrate: 1564 Style Fiberglass Side 1: Uncured Silicone Rubber 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-56141R025-0025-0635-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-56141R025-0025-0635-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	63.5 microns	2.50 mil	Interleave
	102 microns	4.00 mil	Side 2; Arlon SQA-TMS-003
	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	635 microns	25.0 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], Silicone Property; ASTM D624
Peel Strength	1.67 kN/m	9.50 pli	(S2 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	200 °C	392 °F	E54153
UL RTI, Mechanical without Impact	200 °C	392 °F	E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.1 kV/mm	410 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 177 °C	@Pressure 50.0 psi, Temperature 350 °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	Red	
	Red	Substrate
Total Product Weight (oz/yd2)	30.7	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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