

## Arlon 56344R025 0.025" (0.635 mm) Semi-cured Silicone Rubber

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

### Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Semi-Cured Silicone Rubber Substrate: 1564 Style Fiberglass Appearance: Red silicone gum on fiberglass cloth 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-56344R025-0025-0635-mm-Semi-cured-Silicone-Rubber.php](http://www.lookpolymers.com/polymer_Arlon-56344R025-0025-0635-mm-Semi-cured-Silicone-Rubber.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Interleave
	229 microns	9.00 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	38	38	Silicone Property; ASTM D2240
Tensile Strength	6.96 MPa	1010 psi	Silicone Property; ASTM D412
Elongation at Break	579 %	579 %	Silicone Property; ASTM D412
Tear Strength	21.0 kN/m	120 pli	[ppiw], Silicone Property; ASTM D624
Peel Strength	2.73 kN/m	15.6 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.7 kV/mm	475 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle

Processing Properties	@Temperature 204 °C Metric	@Temperature 400 °F English	Comments
	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)	25	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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