

## Arlon 55638R025 0.025" (0.635 mm) Uncured/Cured 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: Style 162 Fiberglass Side 1: Cured Silicone Rubber Product Use: Flexible heater Substrate Appearance: Red silicone rubber and gum on fiberglass substrate 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-55638R025-0025-0635-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-55638R025-0025-0635-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	Side 2, Silicone Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in <sup>3</sup>	Side 1, Silicone Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	Side 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Interleave
	178 microns	7.00 mil	Side 2; 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	Side 1, Silicone Property; ASTM D2240
	60	60	Side 2, Silicone Property; ASTM D2240
Tensile Strength	6.21 MPa	900 psi	Side 1, Silicone Property; ASTM D412
	6.21 MPa	900 psi	Side 2, Silicone Property; ASTM D412
Elongation at Break	200 %	200 %	Side 2, Silicone Property; ASTM D412
	300 %	300 %	Side 1, Silicone Property; ASTM D412
Peel Strength	1.31 kN/m	7.50 pli	Bond Strength; Arlon SQA -TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	

Thermal Properties <small>Temperature, Air</small>	Metric <small>°C</small>	English	Comments
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Electrical Properties	Metric	English	Comments
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Dielectric Strength	23.6 kV/mm	600 kV/in	ASTM D149
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Processing Properties	Metric	English	Comments
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Cure Time	15.0 min @Temperature 177.0 °C	0.250 hour @Temperature 350.6 °F	(under pressure) Recommended Cure Cycle
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Shelf Life	6.00 Month @Temperature 21.0 °C	6.00 Month @Temperature 69.8 °F	From date of manufacture
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Descriptive Properties	Value	Comments
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Color	Natural	Substrate
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	Red	
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Total Product Weight (oz/yd2)	29	Arlon SQA-TMS-025
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## Contact Songhan Plastic Technology Co.,Ltd.

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