

## Arlon 55586R040 0.040" (1.02 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Side 1: Cured Silicone Rubber Substrate: Style 162 Fiberglass Side 2: Uncured Silicone Rubber Interleave:

LDPE Appearance: Red silicone gum and rubber 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-55586R040-0040-102-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-55586R040-0040-102-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	Side 2, Silicone Property; Arlon SQA-TMS-024
	1.56 g/cc	0.0564 lb/in <sup>3</sup>	Side 1, Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Side 1; Arlon SQA-TMS-003
	457 microns	18.0 mil	Side 2; Arlon SQA-TMS-003
	457 microns	18.0 mil	Substrate; Arlon SQA-TMS-003
	1020 microns	40.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	18	18	Side 1, Silicone Property; ASTM D2240
	37	37	Side 2, Silicone Property; ASTM D2240
Tensile Strength	2.93 MPa	425 psi	Side 1, Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 2, Silicone Property; ASTM D412
Elongation at Break	475 %	475 %	Side 1, Silicone Property; ASTM D412
	625 %	625 %	Side 2, Silicone Property; ASTM D412
Tear Strength	9.82 kN/m	56.0 pli	Side 1, Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 2, Silicone Property; ASTM D624
Peel Strength	4.05 kN/m	23.1 pli	Bond Strength; ASTM D624

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	23.5 kV/mm	598 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/yd <sup>2</sup> )	43.8	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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