

## Arlon 51576R015D 0.015" (0.381 mm) Uncured/Cured 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: Cured Silicone Rubber Substrate: 7628 Style Fiberglass Side 2: Uncured Silicone Rubber Interleave 2: Polyethylene 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-51576R015D-0015-0381-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-51576R015D-0015-0381-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 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	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
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	381 microns	15.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Side 2, Silicone Property; ASTM D2240
	52	52	Side 1, Silicone Property; ASTM D2240
Tensile Strength	6.14 MPa	890 psi	Side 1, Silicone Property; ASTM D412
	7.58 MPa	1100 psi	Side 2, Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Side 1, Silicone Property; ASTM D412
	650 %	650 %	Side 2, Silicone Property; ASTM D412
Peel Strength	1.81 kN/m	10.3 pli	Bond Strength; ASTM D624

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

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-55.1 °C	-71.0 °F	
UL RTI, Electrical	220 °C	428 °F	
UL RTI, Mechanical without Impact	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	29.1 kV/mm	739 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)	18.3	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China