

## Arlon 44580R020 0.020" Uncured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: 2.5 mil Polyethylene Side 1: Uncured Silicone Rubber Substrate: Style 1165 Fiberglass (Flexible Heater Substrate) This data represents typical values for the production material and should not be used as material specifications. Information provided by ARLON Silicone Technologies Division.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arlon-44580R020-0020-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-44580R020-0020-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Thickness	127 microns	5.00 mil	Substrate; Arlon SQA-TMS-003
	381 microns	15.0 mil	Silicone; Arlon SQA-TMS-003
	508 microns	20.0 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Silicone Property; ASTM D2240
Tensile Strength	6.55 MPa	950 psi	Silicone Property; ASTM D412
Elongation at Break	670 %	670 %	Silicone Property; ASTM D412
Peel Strength	3.14 kN/m	17.9 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	204 °C	400 °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	30.7 kV/mm	780 kV/in	Arlon SQA-TMS-020

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure 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 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	20.5	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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