

## Arlon 56579R028 0.0295" Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

### Material Notes:

Design/Construction: Interleave: 2.5 mil PE Layer 2: Uncured Silicone Rubber Layer 1: Cured Silicone Rubber Substrate: Style 1564

Fiberglass 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-56579R028-00295-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php](http://www.lookpolymers.com/polymer_Arlon-56579R028-00295-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	Layer 2 Silicone Property; Arlon SQA-TMS-024
	1.35 g/cc	0.0488 lb/in <sup>3</sup>	Layer 1 Silicone Property; Arlon SQA-TMS-024
Thickness	140 microns	5.50 mil	Layer 1; Arlon SQA-TMS-003
	203 microns	8.00 mil	Layer 2; Arlon SQA-TMS-003
	406 microns	16.0 mil	Substrate; Arlon SQA-TMS-003
	749 microns	29.5 mil	Overall Thickness; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	Layer 2 Silicone Property; ASTM D2240
	52	52	Layer 1 Silicone Property; ASTM D2240
Tensile Strength	6.14 MPa	890 psi	Layer 1 Silicone Property; ASTM D412
	7.58 MPa	1100 psi	Layer 2 Silicone Property; ASTM D412
Elongation at Break	550 %	550 %	Layer 1 Silicone Property; ASTM D412
	650 %	650 %	Layer 2 Silicone Property; ASTM D412
Peel Strength	2.68 kN/m	15.3 pli	Bond Strength; Arlon SQA-TMS-011

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

UL RTI Electrical Thermal Properties	220 °C Metric	428 °F English	File E54153 Comments
UL RTI, Mechanical without Impact	200 °C	392 °F	File E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	24.6 kV/mm	625 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Post Cure 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	
	@Temperature 21.1 °C	@Temperature 70.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	30.5	Arlon SQA-TMS-025

## Contact Songhan Plastic Technology Co.,Ltd.

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