

## Arlon 55109R028 Silicone Rubber/Fiberglass Laminate

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

**Material Notes:**

Interleave: 3 mil PE; Layer 2: uncured silicone rubber; Layer 1: cured silicone rubber; Substrate: 162 fiberglass

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arlon-55109R028-Silicone-RubberFiberglass-Laminate.php](http://www.lookpolymers.com/polymer_Arlon-55109R028-Silicone-RubberFiberglass-Laminate.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	silicone property, layer 1; Arlon SQA-TMS-024
	1.35 g/cc	1.35 g/cc	silicone property, layer 2; Arlon SQA-TMS-024
Thickness	88.9 microns	3.50 mil	layer 1; Arlon SQA-TMS-003
	178 microns	7.00 mil	layer 2; Arlon SQA-TMS-003
	483 microns	19.0 mil	substrate; Arlon SQA-TMS-003
	749 microns	29.5 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	silicone property, layer 1; ASTM D2240
	60	60	silicone property, layer 2; ASTM D2240
Tensile Strength, Ultimate	5.52 MPa	800 psi	silicone property, layer 1; ASTM D412
	5.52 MPa	800 psi	silicone property, layer 2; ASTM D412
Elongation at Break	225 %	225 %	silicone property, layer 1; ASTM D412
	225 %	225 %	silicone property, layer 2; ASTM D412
Adhesive Bond Strength	0.0545 MPa	7.90 psi	ASTM D624
Tear Strength	15.8 kN/m	90.0 pli	Die B, layer 1; ASTM D624
	15.8 kN/m	90.0 pli	Die B, layer 2; 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.3 kV/mm	440 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 204 °C	@Temperature 400 °F	
Shelf Life	15.0 min	0.250 hour	
	@Pressure 0.345 MPa, Temperature 121 °C	@Pressure 50.0 psi, Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	

## Contact Songhan Plastic Technology Co.,Ltd.

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