

## Arlon 55149R062 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-55149R062-Silicone-RubberFiberglass-Laminate.php](http://www.lookpolymers.com/polymer_Arlon-55149R062-Silicone-RubberFiberglass-Laminate.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	silicone property; Arlon SQA-TMS-024
Thickness	254 microns	10.0 mil	layer 1; Arlon SQA-TMS-003
	483 microns	19.0 mil	substrate; Arlon SQA-TMS-003
	838 microns	33.0 mil	layer 2; Arlon SQA-TMS-003
	1570 microns	62.0 mil	overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	silicone property; ASTM D2240
Tensile Strength, Ultimate	5.52 MPa	800 psi	silicone property; ASTM D412
Elongation at Break	225 %	225 %	silicone property; ASTM D412
Adhesive Bond Strength	0.0621 MPa	9.00 psi	ASTM D624
Tear Strength	15.8 kN/m	90.0 pli	Die B; silicone property; 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	
UL RTI, Mechanical without Impact	200 °C	392 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
	120 min	2.00 hour	

<b>Cure Time</b> Processing Properties	<b>Metric</b> @ Temperature 204 °C	<b>English</b> @ Temperature 400 °F	<b>Comments</b>
	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	

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Color	Red	

## 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