

Arlon 49586B010 0.0115" (0.292 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Side 1: Cured Silicone RubberSubstrate: Style 1681 FiberglassSide 2: Uncured Silicone RubberInterleave:

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-49586B010-00115-0292-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	Side 2, Silicone Property; Arlon SQA-TMS-024
	1.56 g/cc	0.0564 lb/in ³	Side 1, Silicone Property; Arlon SQA-TMS-024
Thickness	50.8 microns	2.00 mil	Side 1; Arlon SQA-TMS-003
	76.2 microns	3.00 mil	Interleave
	102 microns	4.00 mil	Side 2; Arlon SQA-TMS-003
	140 microns	5.50 mil	Substrate; Arlon SQA-TMS-003
	292 microns	11.5 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Side 2, Silicone Property; ASTM D2240
	55	55	Side 1, Silicone Property; ASTM D2240
Tensile Strength	3.65 MPa	530 psi	Side 1, Silicone Property; ASTM D412
	6.55 MPa	950 psi	Side 2, Silicone Property; ASTM D412
Elongation at Break	300 %	300 %	Side 1, Silicone Property; ASTM D412
	620 %	620 %	Side 2, Silicone Property; ASTM D412
Tear Strength	7.01 kN/m	40.0 pli	Side 1, Silicone Property; ASTM D624
	26.3 kN/m	150 pli	Side 2, Silicone Property; ASTM D624
Peel Strength	2.17 kN/m	12.4 pli	Bond Strength

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	35.4 kV/mm	900 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	Black	
	Black	Substrate
Total Product Weight (oz/yd2)	12.7	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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