

## Arlon LW401Y##-M1 0.040" (1.02 mm) Cured Self-Fusing Silicone Tape (Triangular, Unsupported)

Category : Polymer , Thermoset , Silicone , Silicone Rubber

### Material Notes:

**Description:** 1 inch wide, 40 mil thick, Yellow, Triangular cross-section, Self-Fusing Silicone Tape. Product is supplied in various roll lengths and the ## in the product number indicates roll length in yards.  
**Design/Construction:** Rubber: Cured Self-Fusing Silicone Rubber Cross-Section: 1" Wide Triangular Interleave: Mylar Meets US Military Specification A-A59163 (supercedes Mil-I-46852C) except for sampling level and packaging. The following tests are conducted on one roll from each lot of tape: Thickness, Width, Bond Strength, Tensile Strength, Elongation, Dielectric Strength, and Water Absorption.  
**Arlon LevelWrap® Tape:** LevelWrap® has tapered edges and a colored line along its apes. The purpose of the line is to act as a guide for subsequent wraps in order to form a uniformly thick layer.  
**Performance Advantages:** Resists moisture, oxygen, and ozone to assure continuous high insulation values. Conforms smoothly when wrapped around complex forms. Bonds to itself at room temperature within 24 hours. Remains non-tacky to the touch and does not adhere to other surfaces, or substrates. Insulates with single wrap, thereby reducing labor time and cost. Dampens vibration and resists heat and mechanical shock as well as corona. Inherently flame resistant and when burned forms a non-conductive ash. SA & SB MOX-Tapes® provide a uniform thickness even around sharp edges. Fiberglass fabric, encapsulated inside the silicone rubber, prevents wicking and maintains high insulation resistance under high humidity conditions. These controlled stretch tapes provide a uniform insulation barrier. All tapes are protected by a special interleaved liner.  
**Applications:** Mechanical: Protection of coils from vibration. Vibration fixture, anti-scratch, and clamping pads. Harness wrapping and wire bundling, including for high temperature applications. Applied to rollers for protection and traction. Plant maintenance. Superior, heavy duty repair tape for emergency insulating barrier. Electrical: Insulation of field armature and interpole coils in large motors. Insulation for splicing and terminating of wire and cable. Insulating and sealing electrical connections. Insulating coil leads and bus bar connections. Electromagnetic coil insulation. Motor connections. Overwrapping of deteriorated insulation in reclaimed motors. Environmental: On-board aviation and space applications. Underground cable splices. Insulating heated transfer lines. Insulating in radioactive environments. Masking agent utilized in manufacturing processes and powder coatings. Insulating, protecting, and sealing rigging hardware and power systems in marine applications. 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-LW401Y-M1-0040-102-mm-Cured-Self-Fusing-Silicone-Tape-Triangular-Unsupported.php](http://www.lookpolymers.com/polymer_Arlon-LW401Y-M1-0040-102-mm-Cured-Self-Fusing-Silicone-Tape-Triangular-Unsupported.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Water Absorption	2.2 %	2.2 %	MIL-I-46852C
Thickness	25.4 microns	1.00 mil	Interleave
	1020 microns	40.0 mil	Rubber; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240

Tensile Strength Mechanical Properties	7.58 MPa Metric	1100 psi English	Silicone Property; ASTM D412 Comments
Elongation at Break	400 %	400 %	Silicone Property; ASTM D412
Peel Strength	0.526 kN/m	3.00 pli	Bond Strength; MIL-I-46852C

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

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

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month @Temperature 23.9 °C	12.0 Month @Temperature 75.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	Yellow	

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