

Arlon LW401B##-P2 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, Black, 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: Polyethylene Meets US Military Specification A-A59163 (supercedes Mil-I-46852C) except for sampling level and packaging. The following tests are conducted, with sampling dictated by A-A-59163: 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-LW401B-P2-0040-102-mm-Cured-Self-Fusing-Silicone-Tape-Triangular-Unsupported.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------|---------------------------|--------------------------------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | Silicone Property; Arlon SQA-TMS-024 |
| Water Absorption | 2.2 % | 2.2 % | MIL-I-46852C |
| Thickness | 76.2 microns | 3.00 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 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|------------|----------|------------------------------|
| Tensile Strength | 7.93 MPa | 1150 psi | Silicone Property; ASTM D412 |
| Elongation at Break | 400 % | 400 % | Silicone Property; ASTM D412 |
| Peel Strength | 0.631 kN/m | 3.60 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 | 17.7 kV/mm | 450 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 | Black | |

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