

## Arlon 910-10X##-P1 0.010" (0.254 mm) Cured Self-fusing Silicone Tape

Category : Polymer , Thermoset , Silicone

### Material Notes:

**Design/Construction:** Interleave: Polyethylene Rubber: Cured Self-fusing Silicone Rubber Cross Section Type: 1" Wide Rectangular 1 inch wide, 10 mil thick, Gray, Rectangular cross-section, Self-fusing silicone tape. Product is supplied in various roll lengths and the ## in the product number indicates roll length in yards. Meets US Military Specification A-A-59163 (supercedes Mil-I-46852C) except for packaging and sampling. 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 Rectangular Tape:** Rectangular tape is of uniform thickness and is ideal for applications where a smooth, even layer of tape is not required. **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-910-10X-P1-0010-0254-mm-Cured-Self-fusing-Silicone-Tape.php](http://www.lookpolymers.com/polymer_Arlon-910-10X-P1-0010-0254-mm-Cured-Self-fusing-Silicone-Tape.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	Silicone Property; Arlon SQA-TMS-024
Water Absorption	1.1 %	1.1 %	Arlon SQA-TMS-016
Thickness	76.2 microns	3.00 mil	Polyethylene, Interleave
	254 microns	10.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Silicone Property; ASTM D2240
Tensile Strength	7.481 MPa	1085 psi	Silicone Property; ASTM D412

Mechanical Properties	Metric	English	Comments
Peel Strength	0.403 kN/m	2.30 pli	Bond Strength; Arlon SQA -TMS-015

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	30.0 kV/mm	763 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	Gray	

## Contact Songhan Plastic Technology Co.,Ltd.

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