

## Arlon 912-10R12-P1 0.012" (0.305 mm) Self-Fusing Silicone Tape

Category : Polymer , Thermoset , Silicone

### Material Notes:

**Design/Construction:**Cross Section Type: RectangularRoll Length: 12 Yards Width, inches: 1Arlon 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-912-10R12-P1-0012-0305-mm-Self-Fusing-Silicone-Tape.php](http://www.lookpolymers.com/polymer_Arlon-912-10R12-P1-0012-0305-mm-Self-Fusing-Silicone-Tape.php)

Physical Properties	Metric	English	Comments
Water Absorption	<= 3.0 %	<= 3.0 %	
	@Time 166000 sec	@Time 46.0 hour	
Thickness	76.2 microns	3.00 mil	Polyethylene Carrier, Interleave
	254 - 356 microns	10.0 - 14.0 mil	Overall
	23810 - 26990 microns	937.5 - 1063 mil	Width

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 4.83 MPa	>= 700 psi	Product Property
	>= 4.83 MPa	>= 700 psi	Compound Property
Elongation at Break	>= 300 %	>= 300 %	Product Property
	>= 300 %	>= 300 %	Compound Property

Peel Strength Mechanical Properties	$\geq 0.351$ kN/m Metric	$\geq 2.00$ pli English	Government Bond Comments
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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
Volume Resistivity	$\geq 3.00e+14$ ohm-cm	$\geq 3.00e+14$ ohm-cm	
Dielectric Strength	$\geq 15.7$ kV/mm	$\geq 400$ kV/in	

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	Red	

## Contact Songhan Plastic Technology Co.,Ltd.

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