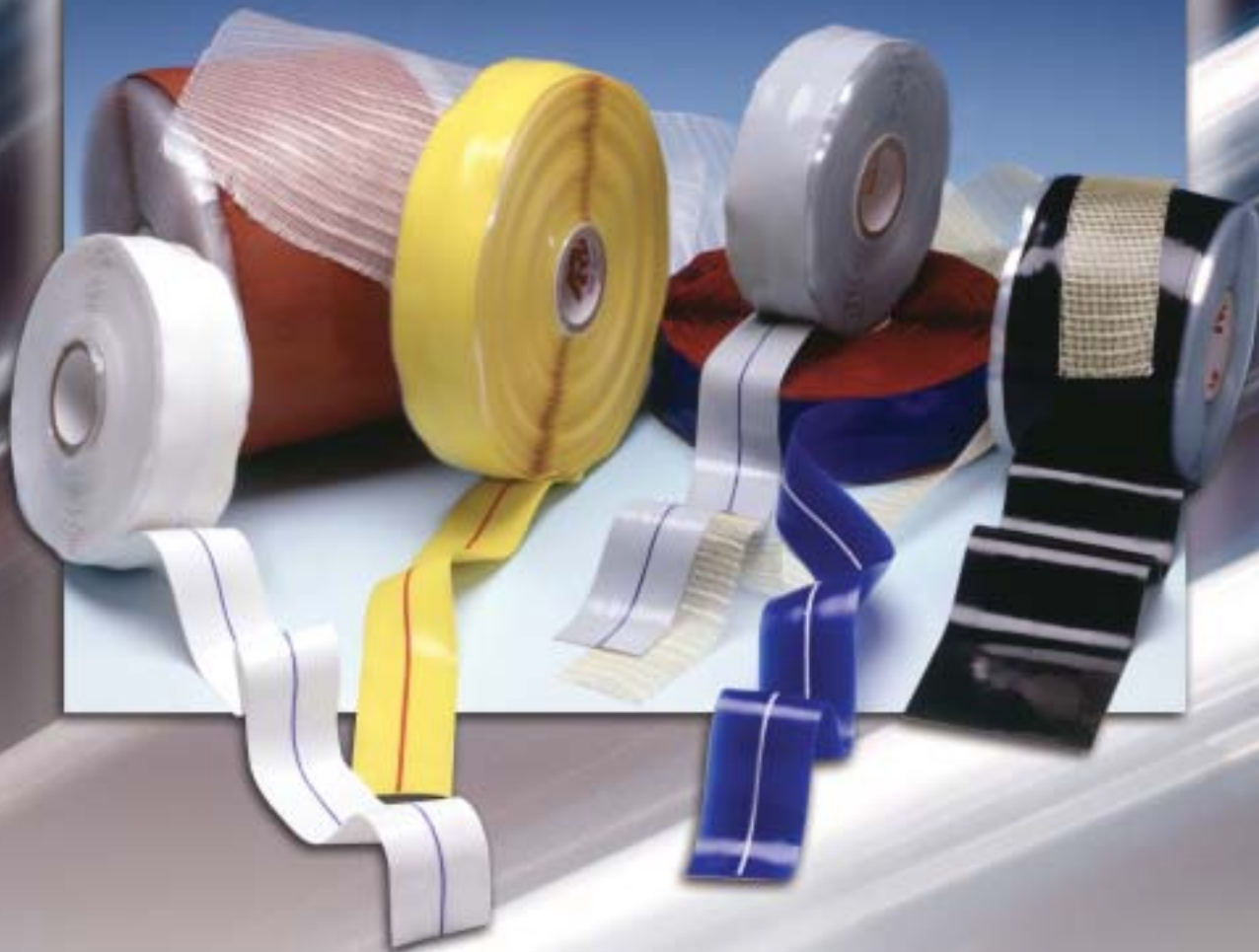


SELF-FUSING SILICONE TAPES





*Arlon and MOX-Tape®
silicone tapes are
produced from specially
formulated silicone
rubber. They bond
irreversibly to provide
an insulative
barrier that is
resistant to moisture,
oxygen, ozone and
corona over a wide
temperature range (-65°F up to +500°F). Our products
provide superior electrical insulation with a dielectric
strength of 300 VPM minimum at 356°F/180°C.*

TAPE PRODUCT LINES AVAILABLE

- Arlon and MOX-Tape® 600-R unsupported tapes with rectangular cross section for general use.
- Arlon LevelWrap® and MOX-Tape® 600-T unsupported tapes with triangular cross section and colored guideline for ensuring consistent overlap and wrap thickness.
- MOX-Tape® SA & SB sinusoidal fiberglass supported tape for a controlled stretch and increased strength and tear resistance.

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 retardant and when burned forms a non-conductive ash. Meets the horizontal burn test criteria prescribed in FAR 25.853.
- 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

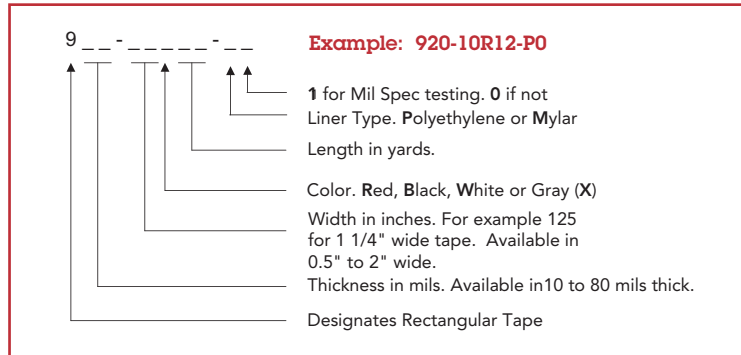
- Insulation of field armature and interpole coils in large motors.
- Protection of coils from vibration.
- Overwrapping of deteriorated insulation in reclaimed motors.
- Insulation for splicing and terminating of wire and cable.
- Insulating and sealing electrical connections.
- Vibration fixture, anti-scratch, and clamping pads.
- Harness wrapping and wire bundling, including for high temperature applications.
- Insulating coil leads and bus bar connections.
- Underground cable splices.
- Electromagnetic coil insulation.
- Insulating heated transfer lines.
- On-board aviation and space applications.
- Insulating in radioactive environments.
- Masking agent utilized in manufacturing processes and powder coatings.
- Applied to rollers for protection and traction.
- Insulating, protecting, and sealing rigging hardware and power systems in marine applications.
- Motor connections.
- Plant maintenance.
- Superior, heavy duty repair tape for emergency insulating barrier.

Arlon Rectangular Tape

Tape Cross Section

Bonded Cross Section

Rectangular tape is of uniform thickness and is ideal for applications where a smooth, even layer of tape is not required. MOX-Tape® 600-R Series rectangular unsupported tapes, which also meet various military and aerospace specifications, are also available.



Arlon MOX-Tape® Fiberglass Reinforced Tape

These self-fusing silicone rubber tapes incorporate a sinusoidal fiberglass fabric that gives a controlled elongation and increased tear resistance. The SA series has a maximum elongation of 25% and the SB series has a maximum elongation of 15%. This reinforcement provides excellent mechanical characteristics while allowing the tape to conform to irregular shapes. The table below lists a few examples of reinforced tapes that are available.

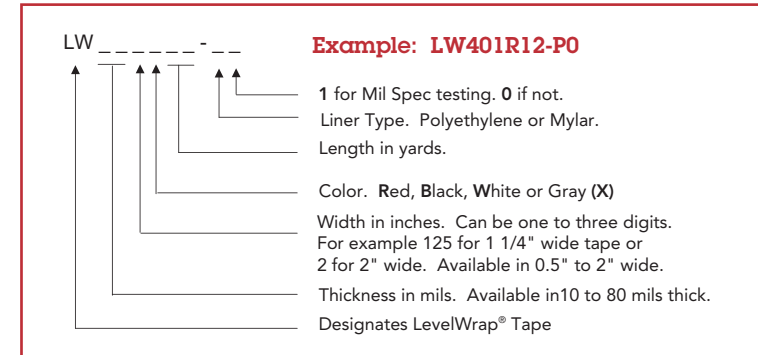
Standard Part No.	Arlon Part No.	Apex Thickness (inches)	Width (inches)	Elongation (%)	Break Strength (lbs)
SA00520	T3020-R002	0.02	1/2	25	40
SB00520	T4020-R002	0.02	1/2	15	40
SA01015	T3015-R004	0.015	1	25	40
SB01015	T4015-R004	0.015	1	15	40
SA03030	T3030-R012	0.03	3	25	40
SB03030	T4030-R012	0.03	3	15	40

Arlon LevelWrap® Tape

Tape Cross Section

Bonded Cross Section

LevelWrap® has tapered edges and a colored line along its apex. The purpose of the line is to act as a guide for subsequent wraps in order to form a uniformly thick layer. MOX-Tape® 600-T series triangular unsupported tapes, which also meet various military and aerospace specifications, are also available.



TYPICAL PROPERTIES

- Thermal Stability
356°F/180°C
- Temperature Range
-65°F to +500°F
- Volume Resistivity
10¹³ ohm-cm. min. (ASTM D257)
- Self Adhesion
2 p.p.i min. (ASTM D2148)
- Hardness
50±10 Shore A (ASTM D2240)
- Moisture Absorption
0.9% (46 hrs. in H₂O @ 70°F)

NOTE: The above properties are published as a guide only, and should not be used for specifications without testing in your own laboratory.

ARLON TAPES MEET THE FOLLOWING SPECIFICATIONS:

MIL-I-46852C, Type I & Type II
A-A-59163, Type I & Type II
MIL-I-22444C
Boeing DMS2186 Type 1 & Type 2

Lockheed Martin MMS J517
Lockheed Martin 5-00857
General Electric A50A493
General Electric A50E112

General Dynamics P5384
Rohr RMS315
FAR 25.853
UL listed



Arlon, a division of Bairnco Corp. has been a leader in silicone rubber and silicone adhesive technologies for nearly five decades. Silicone rubber is a unique elastomer that delivers high performance for a wide variety of applications. Product uses range from thermal insulation pads and molded heat shields for aircraft, aerospace, and automotive applications to substrates for flame retardant flexible heaters, ducting, and motor coil insulation. We focus on precision-calendered silicone rubber, coated fabric, and specialty extruded silicone rubber tapes. Our development team continually explores new technologies so that Arlon remains the world leader in silicone technology.

CHALLENGE US!

We want to work with
you to create tomorrow's
solutions today!

ARLON

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