

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 -54°C up to +260°C (-65°F up to +500°F). These products provide superior electrical insulation with a dielectric strength of 300 VPM minimum at 180°C (356°F).

Applications:

Mechanical

- Wire Harness and Bundling Wrap
- Emergency Pipe and Hose Repair
- Pipe Identification
- Air Duct Sealing
- Coolant Line Repairs
- Traction and Protection for Rollers

Electrical

- Insulation for Splicing and Terminating Wire and Cable
- Coil Insulation in Motors
- Insulating and Sealing of Electrical Connections
- Motor Connection Wrapping
- Cable Management
- Weatherproofing

Extreme Environments

- Space and Aviation
- Heated Transfer Lines
- Radioactive Environments
- Riggings and Power Systems in Marine
- Underwater

Properties	
Temperature Range	-54°C to +260°C (-65°F to +500°F)
Volume Resistivity	10 ¹³ ohm-cm min. (ASTM D257)
Self Adhesion	2 p.p.i min. (3.5 N/cm) (ASTM D2240)
Hardness	50± 10 Shore A (ASTM D2240)
Moisture Absorption	0.9% - 46 hrs. in H ₂ 0 @ 21°C (70°F)
D (A)	

Performance Advantages

No Adhesive: Chemically bonds to itself at room temperature within 24 hours

Remains non-tacky to the touch and does not adhere to other substrates or surfaces

Removes cleanly and easily

Insulates with a single wrap reducing labor time and cost

Resists moisture, oxygen and ozone to ensure continuous high insulation values

Available in flame retardant options with UL-V0 rated compound

Resists heat, mechanical shock, corona and dampens vibration

Conforms smoothly when wrapped around complex forms

All tapes are protected by a special interleaved liner

Note: The above properties are published as a guide only and should not be used for specification development without testing in your own laboratory.

ARLON and MOX-Tape self-fusing silicone tapes have a 24 month shelf life* from the date of manufacture when stored at 21°C +/-3°C (70°F +/-5°F) unless stated otherwise in product specific literature, labels, or certificates of conformance.

* Not including ARLON 10 mil Rectangle which has a shelf life of 12 months.

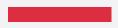




Self-Fusing Silicone Tapes

ARLON and Mox Tape Rectangular Tape

Rectangular tape is of uniform thickness and is ideal for applications where a smooth, even layer of tape is not required.





Tape Cross Section

Bonded Cross Section

ARLON and MOX Tape Fiberglass Reinforced Tape

These self-fusing silicone tapes incorporate a sinusoidal fiberglass fabric that gives a controlled elongation and increased tear resistance. 15% and 25% controlled elongation fabrics are available.



Tape Cross Section

15 or 25% Elongation



ARLON and Mox-Tape Triangular Tape

The triangular tapes have a tapered edge and a colored guide line along the apex which makes wrapping with a 50% overlap simple and repeatable. These tapes are ideal for applications requiring a smooth, even layer of tape.



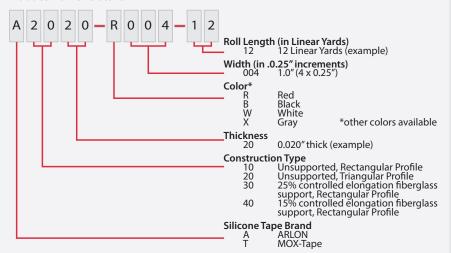


Tape Cross Section

Bonded Cross Section

Product Nomenclature

Sinusoidial Fabric, Controlled Stretch



Certifications

Products can also be certified to many of the following specifications upon request.

MIL-I-46852C, Type 1 & Type 2
A-A-59163A, Type 1 & Type 2
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; Type 1, Type 2 & Type 3
FAR 25.853
UL V-0

