

MOX-TAPE® Self-Fusing Silicone Tapes

MOX-Tape® Self-Fusing 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).

| Property | Method | Unit | Method | T2020-B004-12 | T2040-B004-12 | T1010-B004-12 | T1020-B004-12 | T3020-B004-12 | T3030-B012-12 |
|---|------------------|---------------|-------------|---------------|---------------|-------------------|---------------|---------------|---------------|
| Profile | | | | Trian | gular | Recta | ngular | Recta | ngular |
| Cross Section | | | | | | | | ••••• | ••••• |
| Reinforcement | | | | None | | None | | Fiberglass | |
| Thickness ¹ | ASTM D2148* | inch (mm) | SQA-TMS-012 | 0.020 (0.51) | 0.040 (1.02) | 0.010 (0.25) | 0.020 (0.51) | 0.020 (0.51) | 0.030 (0.76) |
| Width ¹ | ASTM D2148* | inch (mm) | SQA-TMS-012 | 1.00 (25.4) | 1.00 (25.4) | 1.00 (25.4) | 1.00 (25.4) | 1.00 (25.4) | 3.00 (76.2) |
| Color ² | | | | Black | Black | Black | Black | Black | Black |
| Tensile Strength | ASTM D3759* | PSI (kPa) | SQA-TMS-009 | 1262 (8701) | 1306 (9005) | 1288 (8880) | 1317 (9080) | 3810 (26269) | 2444 (16851) |
| Break Strength | | lbf/in (N/cm) | | | | | | 86 (150.6) | 78 (136.6) |
| Elongation at Break | ASTM D3759* | % | SQA-TMS-009 | 779 | 787 | 748 | 823 | 29 | 25 |
| Adhesion Strength | ASTM D2148* | lbf/in (N/cm) | SQA-TMS-015 | 2.6 (4.6) | 3.6 (6.3) | 2.7 (4.7) | 3.4 (6.0) | 7.3 (12.8) | 11.1 (19.4) |
| Dielectric Strength | ASTM D149/D2148* | V/mil (kV/mm) | SQA-TMS-020 | 704 (27.2) | 479 (18.8) | 1146 (45.1) | 817 (32.2) | 659 (25.9) | 649 (25.6) |
| Water Absorption | FED-STD-601* | %w/w | SQA-TMS-016 | 0.2 | 0.1 | 0.4 | 0.2 | 1.6 | 1.1 |
| Temperature Range -54°C to +260°C (-65°F to +500°F) | | | | | | | | | |
| Volume Resistivity A | | ASTM D257 | M D257 | | | 10^13 ohm-cm min. | | | |

Self Adhesion ASTM D2240 2 p.p.i. min. (3.5 N/cm)

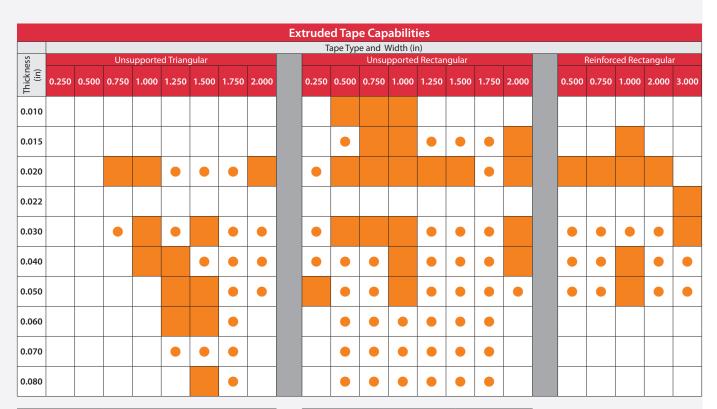
Hardness ASTM D2240 50 Shore A

- 1. Available in a variety of thicknesses and widths as illustrated below. Consult your Sales Engineer or Customer Service for Availability.
- 2. Available colors include; red (red iron oxide), and black.
- * Fiberglass reinforced tape tested as per Mil-1-22444C Specification.





MOX-TAPE® Self-Fusing Silicone Tapes



| Colors | | | | |
|-------------|-----------|----------|--|--|
| ARLON | RapidBond | MOX-Tape | | |
| Red | Grey | Red | | |
| Black | | Black | | |
| Grey | | | | |
| White | | | | |
| Blue | | | | |
| Indigo | | | | |
| Yellow | | | | |
| Orange | | | | |
| Translucent | | | | |

| Interleaves | | | | | |
|-------------|-----------|----------|--|--|--|
| ARLON | RapidBond | MOX-Tape | | | |
| PE | PE | PET | | | |

| Key | | | | |
|--------------------------------------|-------------------|--|--|--|
| Within capability, tooling available | | | | |
| • | Within capability | | | |
| Not capable on current equipment | | | | |

