






MOX-TAPE® Self-Fusing Tapes Data Sheet

Unsupported and Supported Self-Fusing Tapes for Aerospace Applications

| Property | Method | Unit | Method | T2020-B004-12 | T2040-B004-12 | T1010-B004-12 | T1020-B004-12 | T3020-B004-12 | T3030-B012-12 |
|--|------------------|---------------|-------------|---|---------------|---|---------------|---|---------------|
| Profile | | --- | --- | Triangular | | Rectangular | | Rectangular | |
| 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 (277) | 479 (188) | 1146 (451) | 817 (322) | 659 (259) | 649 (256) |
| 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 | | | ASTM 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. | | | | | | | | | |

Unsupported and Supported Self-Fusing Tapes Standard Capabilities

| Unsupported Triangular ▲ Rectangular ■ | | Tape Width (inches) | | | | | | | | | | |
|--|-------|---------------------|-------|------|-------|------|------|------|-------|------|------|------|
| | | 0.25 | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 2.75 | 3.00 |
| Tape Thickness (inches) | 0.010 | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | 0.015 | | ■ | ■ | S ■ | ■ | ■ | ■ | ■ | | | |
| | 0.020 | ■ | ▲ S ■ | S ■ | ▲ S ■ | ▲ ■ | ▲ ■ | ■ | ▲ S ■ | | | S |
| | 0.030 | ■ | ▲ ■ | ■ | ▲ ■ | ▲ ■ | ▲ ■ | ■ | ▲ ■ | | | S |
| | 0.040 | ■ | ■ | ■ | ▲ S ■ | ▲ ■ | ▲ ■ | ■ | ▲ ■ | | | |
| | 0.050 | ■ | ■ | ■ | ▲ S ■ | ▲ ■ | ▲ ■ | ■ | ▲ ■ | | | |
| | 0.060 | ■ | ■ | ■ | ▲ ■ | ▲ ■ | ▲ ■ | ■ | ▲ ■ | | | |
| | 0.070 | ■ | ■ | ■ | ▲ ■ | ▲ ■ | ▲ ■ | ■ | ▲ ■ | | | |
| | 0.075 | ■ | ■ | ■ | ▲ ■ | ▲ ■ | ▲ ■ | ■ | ▲ ■ | | | |
| | 0.080 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | 0.090 | | | | | | | | | | | |
| | 0.100 | | | | | | | | | | | |
| ▲ ■ - Standard Unsupported ▲ ■ - Nonstandard Unsupported S - Supported Standard (Rectangular Only) | | | | | | | | | | | | |
| For products outside of current capability please contact your local sales engineer to discuss requirements. | | | | | | | | | | | | |