

# 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		---	---	Triangular		Rectangular		Rectangular	
Cross Section									
Reinforcement		---	---	None		None		Fiberglass	
Thickness <sup>1</sup>	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 <sup>1</sup>	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 <sup>2</sup>		---	---	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 <sup>13</sup> 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

## Extruded Tape Capabilities

Thickness (in)	Tape Type and Width (in)																							
	Unsupported Triangular								Unsupported Rectangular								Reinforced Rectangular							
	0.250	0.500	0.750	1.000	1.250	1.500	1.750	2.000	0.250	0.500	0.750	1.000	1.250	1.500	1.750	2.000	0.500	0.750	1.000	2.000	3.000			
0.010																								
0.015																								
0.020																								
0.022																								
0.030																								
0.040																								
0.050																								
0.060																								
0.070																								
0.080																								

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