




ARLON® Self-Fusing Silicone Tapes

ARLON® 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).

Unsupported and Supported Self-Fusing Tapes for Industrial Applications

Property	Method	Unit	Method	A2020-R004-12	A2040-R004-12	A1010-R004-12	A1020-R004-12	A3020-R004-12	A3020-R12-12
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		---	---	Red	Red	Red	Red	Red	Black
Tensile Strength	ASTM D3759*	PSI (kPa)	SQA-TMS-009	1291 (8901)	1308 (9018)	1247 (8598)	1401 (9660)	3870 (26062)	4153 (28633)
Break Strength		lbf/in (N/cm)	---	---	---	---	---	78 (136.6)	90 (157.6)
Elongation at Break	ASTM D3759*	%	SQA-TMS-009	515	536	559	534	30	40
Adhesion Strength	ASTM D2148*	lbf/in (N/cm)	SQA-TMS-015	2.9 (5.1)	3.6 (6.3)	2.4 (4.2)	3.4 (6.0)	7.4 (13.0)	8.9 (15.6)
Dielectric Strength	ASTM D149/D2148*	V/mil (kV/mm)	SQA-TMS-020	689 (271)	504 (198)	923 (363)	816 (321)	705 (278)	761 (300)
Water Absorption	FED-STD-601*	%w/w	SQA-TMS-016	1	0.6	0.8	0.5	1.8	3
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			
<p>1. Available in a variety of thicknesses and widths as illustrated on reverse. Consult your Sales Engineer or Customer Service for Availability.</p> <p>2. Available colors include; red (red iron oxide), black, white, gray, blue, green, orange, yellow, vibrant red, and translucent. Custom colors available.</p> <p>* Fiberglass reinforced tape tested as per Mil-1-22444C Specification.</p>									

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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