

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).

	U	Insupported	and Support	ed Self-Fusir	ng Tapes f <mark>or l</mark>	ndustrial Ap	plications			
Property	Method	Unit	Method	A2020-R004-12	A2040-R004-12	A1010-R004-12	A1020-R004-12	A3020-R004-12	A3020-R12-12	
Profile				Trian	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			<u> </u>		-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 on reverse. Consult your Sales Engineer or Customer Service for Availability.

2. Available colors include; red (red iron oxide), black, white, gray, blue, green, orange, yellow, vibrant red, and translucent. Custom colors available.

* Fiberglass reinforced tape tested as per Mil-1-22444C Specification.



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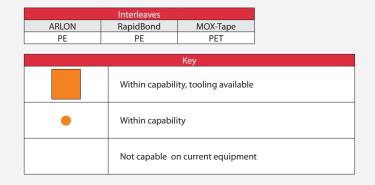
SS	Unsupported Triangular							
Thickness (in)	0.250	0.500			1.250		1.750	2.000
0.010								
0.015								
0.020					•	•		
0.022								
0.030					•			•
0.040								•
0.050								•
0.060								
0.070								
0.080								

Т	аре Тур	e and V						 			
		Unsu	pportec	l Rectar	ngular				Reinford	ed Rec	tang
0.250	0.500	0.750	1.000	1.250	1.500	1.750	2.000	0.500	0.750	1.000	2.00
	•			•	•	•					
•						•					
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•		•		•	•	•			•		
	•			•		•					
				•	•	•					
				•	•	•					

Extruded Tape Capabilities

RapidBond	MOX-Tape		
Grey	Red		
	Black		

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