

## ARLON<sup>®</sup> Self-Fusing Silicone Tapes

ARLON<sup>®</sup> 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).

	L	Insupported	and Support	ted Self-Fusir	ng Tapes for I	ndustrial Ap	plications		
Property	Method	Unit	Method	A2020-R004-12	A2040-R004-12	A1010-R004-12	A1020-R004-12	A3020-R004-12	A3030-R012-12
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>				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 (27.1)	504 (19.8)	923 (36.3)	816 (32.1)	705 (27.8)	761 (30.0)
Water Absorption	FED-STD-601*	%w/w	SQA-TMS-016	1	0.6	0.8	0.5	1.8	3
Temperature Range					<u> </u>	-54ºC to	+260°C (-65°F to	+500°F)	
Volume Resistivity			ASTM D257			1	0^13 ohm-cm mi	n.	
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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d Rectangular .000 2.000 3.000

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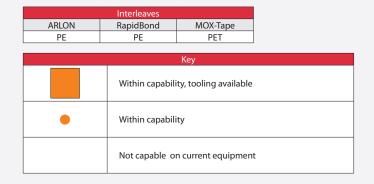
S	Unsupported Triangular							
Thickness (in)	0.250	0.500	0.750		1.250		1.750	2.000
0.010								
0.015								
0.020						•		
0.022								
0.030			•					•
0.040						•		•
0.050								
0.060								
0.070								
0.080								

	Таре Тур	e and \	Vidth (ir	n)						
		Unsu	pportec	d Rectar	ngular				Reinford	ed
0.25	0 0.500	0.750	1.000	1.250	1.500	1.750	2.000	0.500	0.750	1.
	•			•	•	•				
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	•	•			•	•				
						•				

Extruded Tape Capabilities

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

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