

SayFuse

Silicone Rubber Tape



Flexibility & Innovation

Description

Saylor SAYFUSE Silicone Rubber Tape is an improved wrapping tape extruded of high performance silicone rubber suitable wherever a tough, permanently resilient, void-free insulation is required. Our Saylor SAYFUSE Silicone Tape TR (Triangular with Guide Line) provides a colored guide line facilitating taping time. The triangular shape assures a smooth, uniform finished wrap over difficult shapes, such as coils, splices, bus bars and cable harnesses. Saylor SAYFUSE Silicone Rubber Tape is self-adhering and self-fusing, curing in 24 hours at room temperature. Faster curing and a harder finish can be accomplished through the application of heat after wrapping. Temperature range is -60°C to 200°C for continuous use; -65°C to 260°C for intermittent use.

“Manufacturing flexible, non-metallic, wire and hose products for well over a century.”

Applications

- Protects Coils From Vibration and Shock
- Reclaim Old Motors
- Open Frame Motors By Over-wrapping
- Open Frame Motors
- Class A & Class B
- HQ Class H Insulation Systems
- Many Others



Specifications

Saylor SAYFUSE Silicone Rubber Tape meets or exceeds the requirements of MIL CID-A-A-59163, Type I, Rectangular; and Type II, Triangular Guide Line.

Saylor is also UL® Listed. Insulating Tape 3LYA. For use up to 600 volts and 80°C (176°F)



Colors

Standard Colors: Red, Gray, Black (TGL)

Standard Color: Red, Black (Rectangular)

Other colors subject to factory quotation upon request.



Uses

The strength and elasticity of Saylor SAYFUSE Silicone Rubber Tape makes it ideal for automatic wrapping processes, such as for coils, where it protects the coils from the effects of vibration and shock and will not crack or separate with expansion or contraction stresses. The low dielectric losses and high insulation resistance of Saylor SAYFUSE Silicone Rubber Tape will not limit performance of a coil over a very wide temperature range. The high thermal conductivity allows generated heat to dissipate rapidly resulting in a lower temperature rise and an increase of available power for a given load. The use of Saylor SAYFUSE Silicone Rubber Tape makes it possible to easily and quickly reclaim old motors by over-wrapping deteriorated insulation. By the same process extra protection may be added to open frame motors or other equipment in difficult or contaminated locations. May be used in many Class A and Class B applications. High quality Class H insulation systems can be made utilizing Saylor SAYFUSE Silicone Rubber tape.

For optimum shelf life, silicone rubber tape should be stored in a cool, dry area.



For use up to 600 volts and 80°C (176°F)



Characteristics of Silicone Rubber Tape

Property	Test Method	Performance
Operating Temperature Range:		
Continuous		-60°C to 200°C
Intermittent		-65°C to 260°C
Specific Gravity	ASTM D792	1.2
Hardness, Durometer, Shore A		
Room-cured--24 Hours	ASTM D2148	50
Cured at 300°F--24 Hours		70
Cured at 480°F--24 Hours		75
Tensile Strength, psi, minimum	ASTM 119	700
Elongation, %, minimum	ASTM 119	300
Tear Strength, pounds, minimum	ASTM D624 Die B	
Bond Strength, pounds, minimum	MIL CID-A-A-59163	2 (1" width)
Adhesion, inches unwind, maximum	ASTM D2148	3
Cold Brittle Point, °C, maximum	ASTM D746	-65
Water Absorption, % max, by weight	MIL CID-A-A-59163	-3
Dielectric Strength, volts/mil, minimum		
Thickness 0.020 inch		400
Thickness 0.030 inch		400
Thickness 0.040 inch	MIL CID-A-A-59163	300
Thickness 0.050 inch		275
Thickness 0.060 inch		250
Thickness 0.080 inch		200
Dielectric Constant, 1 KHz	ASTM D150	2.95
Dissipation Factor, 1 KHz	ASTM D150	<0.0004
Volume Resistivity, ohms/cm, minimum	MIL CID-A-A-59163	3x10 ¹⁴

Above values are typical performance data for Saylor SayFuse Silicone Rubber TGL Tape and are not intended to be used as design data.



Product Specifications

Width Inch	Width MM	Thickness Inch	Thickness MM	Guideline Color	Average Roll Length Yards	Average Roll Length Meters	Nominal Weight/Roll Pounds	Nominal Weight/Roll Kilogram
TRIANGULAR								
*1.0	25.4	.020	.0508	Blue	12	10.97	.279	.1266
*1.0	25.4	.030	.0762	White	12	10.97	.375	.1701
*1.0	25.4	.040	1.016	Green	12	10.97	.469	.2127
1.25	31.75	.040	1.016	Green	12	10.97	.584	.2649
1.25	31.75	.050	1.270	Yellow	12	10.97	.701	.3180
1.50	38.1	.060	1.524	Blue	12	10.97	.984	.4463
1.50	38.1	.080	2.032	White	12	10.97	1.265	.5738
2.0	50.8	.020	0.508	Blue	12	10.97	.0532	0.241
2.0	50.8	.030	0.762	White	12	10.97	0.628	0.285
RECTANGULAR								
.750	19.5	.012	.305	n/a	12	10.97	.163	0.739
.750	19.5	.015	.381	n/a	12	10.97	.205	0.930
.750	19.5	.020	.508	n/a	12	10.97	.277	.1256
*1.0	25.4	.012	.305	n/a	12	10.97	.215	.0975
*1.0	25.4	.015	.381	n/a	12	10.97	.277	.1256
*1.0	25.4	.020	.508	n/a	12	10.97	.368	.1669
1.5	38.1	.012	.305	n/a	12	10.97	.330	.1497
1.5	38.1	.015	.381	n/a	12	10.97	.415	.1882
1.5	38.1	.020	.508	n/a	12	10.97	.552	.2504

*Standard Sizes



Packaging

Style	Width	Length	Thickness	Rolls Per Case
Type I - Rectangular	3/4", 1", 1 1/2"	12 Yards	.012" thru .080"	50
Type II - Triangular	1", 1 1/2"	12 Yards	.020" thru .080"	50

Other sizes are roll lengths can be supplied, subject to factory quotation upon request.

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