



Specifications:

SAE AMS-DTL-23053/18 Class 3

Recommended Printer & Ribbon:

SumiMark® Marking System Models III & IV Ribbon SumiMark® SM3

Print Performance:

Adherence: SAE-AS5942 MIL-STD-202G, Method 215J Store in original packaging

SM3-31 2:1 Shrink Ratio Flexible Fluoropolymer

Product Overview:

SumiMark® SM3-31 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-31 tubing meets material requirements of SAE AMS-DTL-23053/18 Class 3. This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with SumiMark® Marking Systems and SumiMark® ribbons.

Applications:

- Wire identification
- Strain relief
- Wire protection
- Abrasion protection
- Fluid resistance
- High temperature

Product Features:

- Very flexible, highly flame retarded fluoropolymer
- 2:1 Shrink Ratio
- Operating temperature range –55°C to +150°C
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- Colors-White

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SM3-31 2:1 Shrink Ratio Flexible Fluoropolymer

Technical Specifications:

Property	Test Method	Requirement
Tensile strength (psi) Elongation (%) Specific Gravity Low Temperature Flex (-55° C) Heat shock (250° C, 4 hrs.) Heat Resistance (175° C, 168 hrs)	ASTM D 638 ASTM D 638 ASTM D 792 AMS-DTL-23053 AMS-DTL-23053	1500 min. 200 min. 2.0 max. no cracking no cracking
Elongation % Longitudinal change Secant modulus(psi)	ASTM D 638 AMS-DTL-23053 ASTM D 882	100 min. +/- 10 2.5 X 10 ⁴ max.
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	400 min. 1.0 X 10 ¹¹ min.
Chemical: Copper Stability (180° C, 168 hrs) Elongation (%) Water absorption (%) Fluid resistance (23° C, 24 hrs.)	UL224 ASTM D 570	70% of unaged value min. 0.5 max.
Tensile strength (psi) Flammability Shrink temperature, nominal	AMS-DTL-23053 UL 224 VW-1	1000 min. Pass 130° C
Specification references: AMS-DTL-23053/18 Class 3 SAE AS5942		

Standard Sizes:

	ID Min (As Supplied)		ID Max (After Recovery)		Wall Thickness Nom (After Recovery)	
Size	Inch	MM	Inch	MM	Inch	MM
1/8	.125	3.2	.062	1.6	.010	0.31
3/16	.187	4.8	.093	2.4	.010	0.31
1/4	.250	6.4	.125	3.2	.012	0.36
3/8	.375	9.5	.187	4.8	.012	0.36
1/2	.500	12.7	.250	6.4	.012	0.36
3/4	.750	19.1	.375	9.5	.017	0.43
1	1.00	25.4	.500	12.7	.019	0.48

Standard Colors: White Standard Package: Spooled

How to Order: Type of Material Size Color **Packaging** Example: SM3-31 1/4 White Spooled

