



SM3-23 3:1 Shrink Ratio Overexpanded Polyolefin



Product Overview:

SumiMark® SM3-23 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-23 tubing meets material requirements of AMS-DTL-23053/5 Class 1, with exception to dimensions and longitudinal change and is UL/CSA recognized 125° C 600 V (VW-1). This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with SumiMark® Marking Systems and SumiMark® ribbons.

Specifications:

UL/CSA recognized 125° C 600 V (VW-1)

AMS-DTL-23053/5 Class 1

(with exception to dimensions and longitudinal change)

Recommended Printer & Ribbon:

SumiMark® Marking System Models III or IV

Ribbon SumiMark® SM3

Print Performance:

Adherence: SAE-AS5942

MIL-STD-202G, Method 215J

Store in original packaging

Applications:

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

Product Features:

- 3:1 Shrink Ratio
- Operating temperature range -55° C to +135° C and up to 200° C for short durations
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- Colors—white, black, yellow. Others upon request.



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SM3-23

3:1 Shrink Ratio

Overexpanded Polyolefin

Technical Specifications:

Property	Test Method	Requirement
Tensile strength (psi)	ASTM D 638	1500 min.
Elongation (%)	ASTM D 638	200 min.
Specific gravity	ASTM D 792	1.35 max.
Low temperature flex (-55° C)	AMS-DTL-23053	no cracking
Heat shock (250° C, 4 hrs.)	AMS-DTL-23053	no cracking
Heat resistance (175° C, 168 hrs.)		
Elongation (%)	ASTM D 638	100 min.
Secant modulus(psi)	ASTM D 882	2.5 X 10 ⁴ max.
Longitudinal change (%)	AMS-DTL-23053	+5, -15
Electrical:		
Dielectric strength (volts/mil)	ASTM D 876	500 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 X 10 ¹⁴ min.
Chemical:		
Corrosion (175° C, 16 hrs.)	AMS-DTL-23053	no corrosion
Water absorption (%)	ASTM D5 70	0.5 max.
Fluid resistance (23° C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	1000 min.
Flammability	AMS-DTL-23053	Pass
Shrink temperature, nominal		90° C

Specification references:

SAE AS5942

UL-224 125° C, 600 V, VW-1

File E48762 YDPU2

CSA

Standard Sizes:

Size	ID Min (As Supplied)		ID Max (After Recovery)		Wall Thickness Nom (After Recovery)	
	Inch	MM	Inch	MM	Inch	MM
1/16	.063	1.6	.021	0.5	.020	0.50
1/8	.125	3.2	.043	1.1	.024	0.60
3/16	.188	4.8	.063	1.6	.026	0.65
1/4	.250	6.4	.083	2.1	.028	0.70
3/8	.375	9.5	.122	3.1	.031	0.80
1/2	.500	12.7	.165	4.2	.033	0.85
3/4	.750	19.1	.248	6.3	.039	1.00
1	1.00	25.4	.327	8.3	.048	1.20

Standard Colors: White, Black, Yellow. Other colors available per factory quote and acceptance.

Standard Package: Spooled

How to Order:	Type of Material	Size	Color	Packaging
Example:	SM3-23	1/4	Black	S