



SM3-16

2:1 Shrink Ratio

Flexible Elastomer

Product Overview:

SumiMark® SM3-16 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-16 tubing product meets all requirements of SAE AMS-DTL-23053/1, Classes 1 & 2. This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with SumiMark® Marking Systems and SumiMark® ribbons.

Specifications:

SAE AMS-DTL-23053, Classes 1 & 2 compliant

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

Product Features:

- 2:1 Shrink Ratio
- Operating temperature range -75°C to $+120^{\circ}\text{C}$ and up to 200°C for short durations
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- Flame retarded
- Colors—Black.



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Technical Specifications:

Property	Test Method	Requirement
Tensile strength (psi)	ASTM D 638	1500 min.
Elongation (%)	ASTM D 638	250 min.
Specific gravity	ASTM D 792	1.3 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	200 min.
Tensile stress (psi)	ASTM D 412	2500 max.
(@200% elongation)		
Longitudinal change (%)	AMS-DTL-23053	+1, -10
Electrical:		
Dielectric strength (volts/mil)	ASTM D 876	300 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 X 10 ¹¹ min.
Chemical:		
Corrosion (175° C, 16 hrs.)	AMS-DTL-23053	no corrosion
Water absorption (%)	ASTM D 570	1.0 max.
Fluid resistance (23° C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	1000 min.
Flammability	AMS-DTL-23053	Pass
Shrink temperature, nominal		150° C

Specification references:
AMS-DTL-23053/1, Classes 1 & 2

Standard Sizes:

Size	ID Min (As Supplied)		ID Max (After Recovery)		Wall Thickness Nom (After Recovery)	
	Inch	MM	Inch	MM	Inch	MM
1/8*	.125	3.2	.062	1.6	.020	0.51
3/16*	.187	4.8	.093	2.4	.020	0.51
1/4	.250	6.4	.125	3.2	.025	0.64
3/8	.375	9.5	.187	4.8	.025	0.64
1/2	.500	12.7	.250	6.4	.025	0.64
3/4	.750	19.1	.375	9.5	.030	0.76
	1.00	25.4	.500	12.7	.035	0.89

* - Non SAE spec sizes. Cannot certify to SAE spec.

Standard Colors: Black only.

Standard Package: Spooled

How to Order:	Type of Material	Size	Color	Packaging
Example:	SM3-16	1/4	Black	Spooled