



# SM3-25

## 3:1 Shrink Ratio

### Dual Wall, Adhesive Lined



#### Specifications:

SAE AMS-DTL-23053/4 Class 3

#### Recommended Printer & Ribbon:

SumiMark® Marking System Model IV 300 DPI

Ribbon SumiMark® SM3

#### Print Performance:

Adherence: SAE-AS5942

MIL-STD-202G, Method 215J

Store in original packaging

#### Product Overview:

SumiMark® SM3-25 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-25 tubing meets requirements of SAE AMS-DTL-23053/4 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
- Sealing against moisture

#### Product Features:

- Flame Retarded, Dual Wall, Adhesive Lined Polyolefin
- 3:1 Shrink Ratio
- Operating temperature range  $-55^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- Colors—black



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#### Technical Specifications:

Property	Test Method	Requirement
Tensile strength (psi)	ASTM D 638	1300 min.
Elongation (%)	ASTM D 638	250 min.
Cold impact (-55° C, 4 hrs)	ASTM D 746	no cracking
Heat shock (250° C, 4 hrs.)	AMS-DTL-23053	no cracking
Longitudinal change	AMS-DTL-23053	+1, -15
Secant modulus(psi)	ASTM D 882	2.5 X 10 <sup>4</sup> max.
Electrical:		
Dielectric strength (volts/mil)	ASTM D 876	300 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 X 10 <sup>12</sup> min.
Chemical:		
Corrosion (175° C, 16 hrs.)	UL 224	no corrosion
Water absorption (%)	ASTM D 570	1.0 max.
Fluid resistance (23° C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	900 min.
Flammability	ASTM D 2671, Procedure B	Pass
Shrink temperature, nominal		110° C
Specification references:		
AMS-DTL-23053/4 Class 3		
SAE AS5942		

#### 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	.040	1.0	.037	0.95
3/16*	.189	4.8	.059	1.5	.043	1.1
1/4	.252	6.4	.079	2.0	.047	1.2
3/8*	.374	9.5	.118	3.0	.051	1.3
1/2	.500	12.7	.157	4.0	.055	1.4
3/4*	.748	19.0	.236	6.0	.071	1.8

\* Non-SAE spec sizes

**Standard Colors:** Black

**Standard Package:** Spooled

How to Order:	Type of Material	Size	Color	Packaging
Example:	SM3-25	1/2	Black	Spooled