



# SM3-24

## 2:1 Shrink Ratio

### Dual Wall, Adhesive Lined



#### Product Overview:

SumiMark® SM3-24 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-24 tubing meets material requirements of AMS-DTL-23053/4 Class 2. This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with SumiMark® Marking Systems and SumiMark® ribbons.

#### Specifications:

UL 224, 125° C, 600 Volts  
AMS-DTL-23053/4 Class 2

#### 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
- Sealing against moisture

#### Product Features:

- Flame Retarded, Dual Wall, Adhesive Lined Polyolefin
- 2:1 Shrink Ratio
- Operating temperature range -55°C to +110° C
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- Colors—black



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### Dual Wall, Adhesive Lined

#### Technical Specifications:

Property	Test Method	Requirement
Tensile strength (psi)	ASTM D638	1500 min.
Elongation (%)	ASTM D638	200 min.
Cold impact (-55° C, 4 hrs)	ASTM D746	no cracking
Heat shock (250° C, 4 hrs.)	AMS-DTL-23053	no cracking
Heat resistance (175° C, 168 hrs.)		
Longitudinal change	AMS-DTL-23053	+5, -15
Secant modulus(psi)	ASTM D882	2.5 X 10 <sup>4</sup> max.
Electrical:		
Dielectric strength (volts/mil)	ASTM D876	500 min.
Volume resistivity (ohm-cm)	ASTM D876	1.0 X 10 <sup>14</sup> min.
Chemical:		
Corrosion (175° C, 16 hrs.)	UL 224	no corrosion
Water absorption (%)	ASTM D570	0.5 max.
Fluid resistance (23° C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL 23053	1000 min.
Flammability	UL 224	Pass
Shrink temperature, nominal		110° C
Specification references:		
AMS-DTL-23053/4 Class 2, except longitudinal change		
SAE AS5942		
UL 224, 125° C, 600 Volts		

#### 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	0.62	1.6	.026	0.70
3/16*	.188	4.8	.093	2.4	.026	0.70
1/4	.250	6.4	.125	3.2	.030	0.75
3/8*	.375	9.5	.187	4.8	.030	0.75
1/2	.500	12.7	.250	6.4	.030	0.75
3/4	.750	19.1	.375	9.5	.035	0.90
1	1.00	25.4	.500	12.7	.042	1.10

\* Non-Mil spec sizes

**Standard Colors:** Black

**Standard Package:** Spooled

<b>How to Order:</b>	Type of Material	Size	Color	Packaging
Example:	SM3-24	1/4	Black	Spooled