

## SM3-23

### Overexpanded Polyolefin 3:1 Shrink Ratio

#### Applications:

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

#### Product Features:

- 3:1 shrink ratio
- Operating temperature range  
-55°C to +135°C and up to 200°C  
for short durations
- Continuous design for cut-to-  
length requirements and cost  
savings
- Colors - white, black, yellow



#### Specifications:

SAE AS23053/5, Class 1  
(with exception to dimensions  
and longitudinal change)  
UL 224 125°C, 600v  
UL/CSA VW-1

#### Required Printer & Ribbon:

Printer - Sumimark™ IV PLUS  
Marking System  
Ribbon - Sumimark™ SM3

#### Print Performance:

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



#### Product Overview

**Quality counts!** Sumimark™ SM3-23, 3:1 heat shrink tubing is a markable product, manufactured to the highest quality controls and manufacturing standards. When used in conjunction with the Sumimark™ IV PLUS Marking System, Sumimark™ SM3-23 tubing provides mil-spec mark permanence.

**Lower cost!** Due to open and continuous design, SM3-23 provides significantly lower installation cost versus pre-cut formats.

**How can we help?** Contact us for more information:

800 758 3515  
customerservice@seipusa.com  
www.seipusa.com

**Technical Specifications:**

SAE AS23053/5, Class 1  
(with exception to dimensions  
and longitudinal change)  
UL 224 125°C, 600v  
UL/CSA VW-1, 125°C, 600 volts  
RoHS/RoHS 2 Compliant

**Electrical**
**Chemical**
**Print Adherence**

## SM3-23

### Overexpanded Polyolefin 3:1 Shrink Ratio

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)		
Secant modulus (psi)	ASTM D 882	2.5 x 10 <sup>4</sup> max.
Longitudnal change (%)	AMS-DTL-23053	+5, -15
Dielectric strength (volts/mil)	ASTM D 876	500 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 x 10 <sup>14</sup> min.
Corrosion (175°C, 16 hrs.)	AMS-DTL-23053	no corrosion
Water absorption (%)	ASTM D 570	0.5 max.
Fluid resistance (23°C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL-23053	1000 min.
Flammability	UL 224 VW-1	Pass
Shrink temperature, nominal		90°C
Abrasion (eraser method)	SAE AS5942	20 rubs
Fluid Resistance:	MIL-STD-202G, Method 215	
Isopropyl Alcohol/Mineral Spirits Blend		10 rubs (x3)
Terpene Defluxer		10 rubs (x3)
H <sub>2</sub> O/PGME/Monoethanolamine		10 rubs (x3)
UV Resistance: 720 hrs. xenon arc lamp exposure		marks legible

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Product insight

Rev. A, May 2022

## Standard Sizes:

Please see table to the right for standard sizes. Custom sizes and colors are available with minimum order quantities.

## Standard Colors:

White, black, yellow.

## Dimensional Information:

Please refer to diagram to the right for dimensions.

## Standard Package:

Continuous, spooled. Feet.

## How to order:

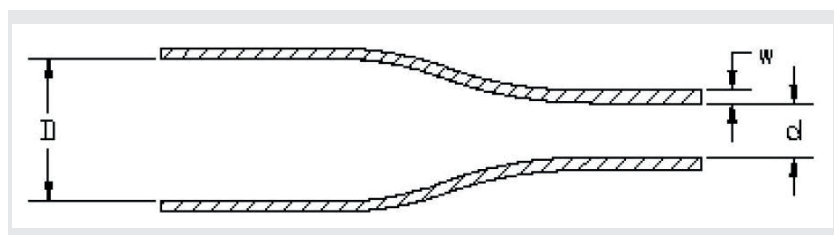
Example: SM3-23, 1/4", White

# SM3-23

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Size	ID Min (as supp.)		ID Max (after recov.)		Wall Thickness Nom (after recov.)		Packaging (per spool)
inch	inch	mm	inch	mm	inch	mm	ft
1/16	.063	1.6	.021	0.5	.020	0.50	1,000
1/8	0.125	3.2	.043	1.1	.024	0.60	500
3/16	.188	4.8	.063	1.6	.026	0.65	200
1/4	.250	6.4	.083	2.1	.028	0.70	200
3/8	.375	9.5	.122	3.1	.031	0.80	200
1/2	.500	12.7	.165	4.2	.033	0.85	200
3/4	.750	19.1	.248	6.3	.039	1.00	200
1	1.00	25.4	.327	8.3	.048	1.20	200
1.5	1.50	38.1	.500	12.7	.050	1.30	200



**Type of material**  
SM3-23

**Size**  
1/4

**Color**  
White

**Packaging**  
Spool

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