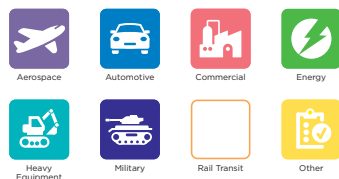


Rapid reference

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## SM3-13

# Clear Flexible Polyolefin 2:1 Shrink Ratio

### Applications:

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

### Product Features:

- 2:1 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 - clear only

### Specifications:

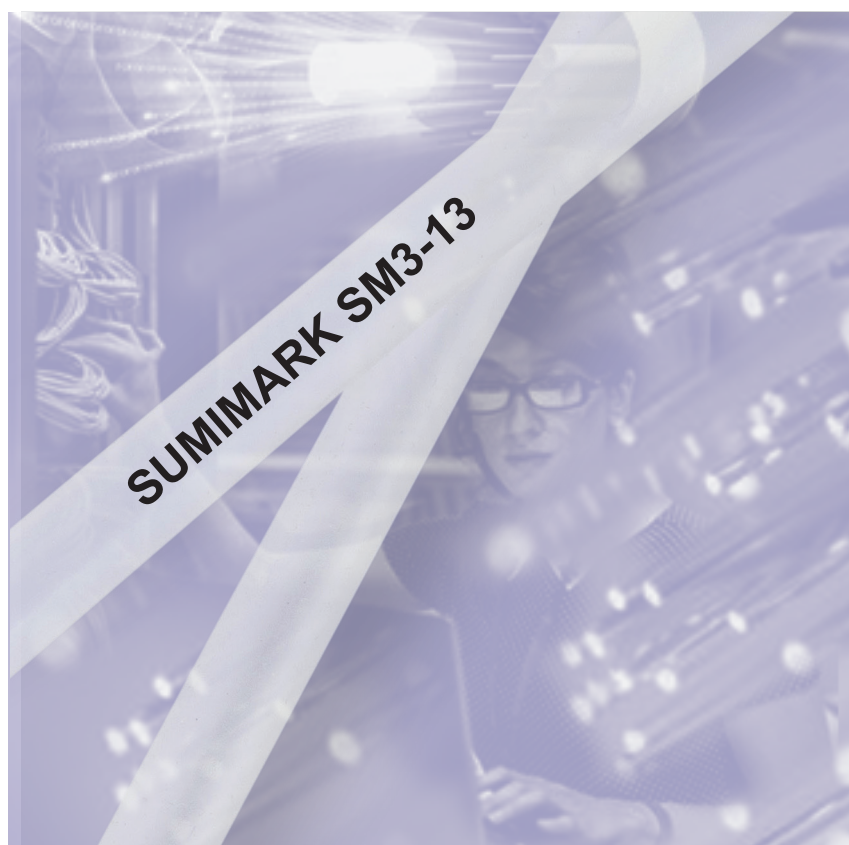
SAE AS23053/5, Class 2

### 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™ SM3-13, 2:1 heat shrink tubing is a very flexible, non-flame retarded, markable product, manufactured to the highest quality controls and industry standards. When used in conjunction with the Sumimark™ IV PLUS Marking System, Sumimark™ SM3-13 provides mil-spec mark permanence.

**Lower cost!** Due to open and continuous design, SM3-13 provides a 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

## SM3-13

### Clear Flexible Polyolefin 2:1 Shrink Ratio

**Technical Specifications:**

SAE AS23053/5, Class 2  
RoHS/RoHS 2 Compliant

	Property	Test Method	Requirement
	Tensile strength (psi)	ASTM D 638	1500 min.
	Elongation (%)	ASTM D 638	200 min.
	Specific gravity	ASTM D 792	1.00 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
<b>Electrical</b>	Dielectric strength (volts/mil)	ASTM D 876	500 min.
	Volume resistivity (ohm-cm)	ASTM D 876	1.0 x 10 <sup>14</sup> min.
<b>Chemical</b>	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.
	Shrink temperature, nominal		115°C
<b>Print Adherence</b>	Abrasion (eraser method)	SAE AS5942	30 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

**We can help:** 800 758 3515 customerservice@seipusa.com www.seipusa.com

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:**

Clear only.

**Dimensional Information:**

Please refer to diagram to the right for dimensions.

**Standard Package:**

Continuous, spooled. Feet.

**How to order:**

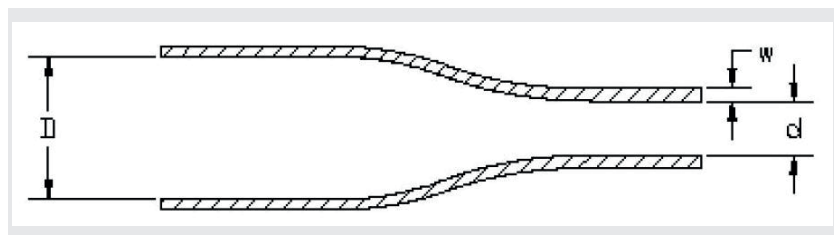
Example: SM3-13, 1/4", Clear

## SM3-13

### Clear Flexible Polyolefin 2:1 Shrink Ratio

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Size	ID Min		ID Max		Wall Thickness Nom		Packaging
	(as supp.)		(after recov.)		(after recov.)		
inch	inch	mm	inch	mm	inch	mm	ft
1/16	.063	1.6	.031	0.8	.017	0.43	1,000
3/32	.093	2.4	.046	1.2	.020	0.51	500
1/8	.125	3.2	.062	1.6	.020	0.51	500
3/16	.187	4.8	.093	2.4	.020	0.51	200
1/4	.250	6.4	.125	3.2	.025	0.64	200
3/8	.375	9.5	.187	4.8	.025	0.64	200
1/2	.500	12.7	.250	6.4	.025	0.64	200
3/4	.750	19.1	.375	9.5	.030	0.76	200
1	1.00	25.4	.500	12.7	.035	0.89	100
1.5	1.50	38.1	.750	19.1	.040	1.02	100
2	2.00	50.8	1.00	25.4	.045	1.14	100



Type of material	Size	Color	Packaging
SM3-13	1/4	Clear	Spool

**We can help:** 800 758 3515 customerservice@seipusa.com www.seipusa.com