

Sumimark[™]

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SM3-12Flexible 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-tolength requirements and cost savings
- Colors white, black, yellow.
 Others by request



Specifications:

SAE AS23053/5, Class 1 & 3 (2" size does not meet Class 3) 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™ SM3-12, 2:1 heat shrink tubing is a rounded, continuous, markable product, manufactured to the highest quality controls and industry standards. When used in conjunction with the Sumimark™ IV PLUS Marking System and Sumimark™ ribbon, Sumimark™ SM3-12 tubing provides highly legible, mil-spec mark permanence.

Lower Cost! Due to open and continuous design, SM3-12 provides significantly lower installation cost versus precut formats.

How can we help? Contact us for more information:

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



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Product insight

SM3-12

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Flexible Polyolefin 2:1 Shrink Ratio

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Technical Specifications:	Property	Test Method	Requirement				
SAE AS23053, Class 1 & 3	Tensile strength (psi)	ASTM D 638	1500 min.				
(2" size does not meet Class 3) UL 224 125°C, 600v	Elongation (%)	ASTM D 638	200 min.				
UL/CSA VW-1, 125°C, 600 volts	Specific gravity	ASTM D 792	1.35 max.				
RoHS/RoHS2 Compliant	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 ⁴ max.				
	Longitudnal change (%)	AMS-DTL-23053	+/-5				
Electrical	Dielectric strength (volts/mil)	ASTM D 876	500 min.				
	Volume resistivity (ohm-cm)	ASTM D 876	1.0 x 10 ¹⁴ min.				
Chemical	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				
Print Adherence	Abrasion (eraser method)	SAE-AS5942 30 rubs					
	Fluid Resistance:	MIL-STD-202G, M					
	Isopropyl Alcohol/Mineral Spirts Blend		10 rubs (x3)				
	Terpene Defluxer		10 rubs (x3)				

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H₃0/PGME/Monoethanolamine

10 rubs (x3)



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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.

SM3-12

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Size	ID Min	1	ID Max		Wall Thick	ness Nom	Packaging
	(as su	рр.)	(after r	ecov.)	(after reco	v.)	(per spool)
inch	inch	mm	inch	mm	inch	mm	ft
1/16	.063	1.6	.031	8.0	.017	0.43	1,000
3/32	0.93	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

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Note

Standard Colors:

White, black, yellow. Other colors available per factory quote and acceptance.

Dimensional Information:

Please refer to diagram to the right for dimensions.

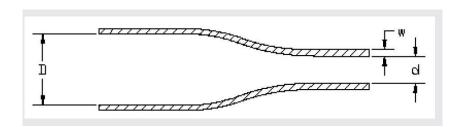
Standard Package:

Continuous, spooled. Feet.

How to order:

Example: SM3-12, 1/4", White





Type of material	Size	Color	Packaging
SM3-12	1/4	White	Spool

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^{*} Size does not meet /5, Class 3 (size not listed on Class 3 size table).