



# SM3-41 4:1 Shrink Ratio Overexpanded Polyolefin



## Product Overview:

SumiMark® SM3-41 heat shrink tubing is a markable product, manufactured to the highest quality standards. SumiMark® SM3-41 tubing meets requirements of SAE AMS-DTL-23053/5 Class 1, overexpanded. This product also meets print adherence requirements of SAE-AS5942, when used in conjunction with SumiMark® Marking Systems and SumiMark® ribbons.

## Specifications:

SAE AMS-DTL-23053/5 Class 1

## Recommended Printer & Ribbon:

SumiMark® Marking System Models III & 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
- Repair/retrofit

## Product Features:

- Very flexible, flame retarded, overexpanded polyolefin
- 4:1 Shrink Ratio
- Operating temperature range -55°C to +135° C and up to 200 C° for short periods
- Continuous format for cut-to-length requirements and cost savings
- RoHS/RoHS2 compliant
- Colors—white and black



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# SM3-41

## 4:1 Shrink Ratio

### Overexpanded Polyolefin

#### Technical Specifications:

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)		
Elongation %	ASTM D 638	100 min.
Longitudinal change	AMS-DTL-23053	+5 to -50
Secant modulus(psi)	ASTM D 882	2.5 X 10 <sup>4</sup> max.
Electrical:		
Dielectric strength (volts/mil)	ASTM D 876	500 min.
Volume resistivity (ohm-cm)	ASTM D 876	1.0 X 10 <sup>14</sup> 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

Specification references:  
 AMS-DTL-23053/5 Class 1, overexpanded  
 SAE AS5942  
 SAE AS5942

#### Standard Sizes:

Size	ID Min (As Supplied)		ID Max (After Recovery)		Wall Thickness Nom (After Recovery)	
	Inch	MM	Inch	MM	Inch	MM
3/4*	.750	19.1	.180	4.6	.045	1.14
1	1.00	25.4	.260	6.6	.045	1.14
1 1/2*	1.50	38.1	.375	9.5	.045	1.14
2	2.00	50.4	.550	14.0	.045	1.14

\* Non SAE spec sizes

**Standard Colors: White and Black**

**Standard Package:** Spooled

How to Order:	Type of Material	Size	Color	Packaging
Example:	SM3-41	1	Black	Spooled