

## DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE, SPOOLED

For Use with Sumimark IV 300dpi Printer  
3 : 1 Shrink Ratio

### MILITARY SPECIFICATION



RoHS Compliant

### TYPICAL FEATURES

- 1) SUMIMARK SM3 - 25 is a flexible, flame-retardant polyolefin dual wall 3:1 shrink ratio heat-shrinkable tubing with a modified polyamide adhesive inner wall. When used in conjunction with the SUMIMARK IV 300 dpi printer and SM3 white matte ribbon, SM3 - 25 tubing produces marker sleeves that meet or exceed the print adherence requirements of SAE-AS5942 after shrinking.
- 2) *SM3-25 is not compatible with earlier Models 1, 2, 3 and IV (200dpi) Sumimark printers.*
- 3) SUMITUBE SM3-25 meets or exceeds the requirements of SAE-AMS-DTL-23053/4, Class 3, with exception to sizes marked (\*) in the table below.
- 4) Shrink temperature is 110° C.
- 5) Operating temperature range is -55° C to +125° C.
- 6) SUMIMARK SM3 - 25 is recommended for marker sleeve applications in environmental conditions that require sealing against moisture and water or other contaminants. Recovered marker sleeves made from SM3-25 will not slide or slip across the substrate due to the presence of the inner wall of hot-melt adhesive.

### STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
1/8	.125	3.2	.040	1.0	.037	0.95
* 3/16	.189	4.8	.059	1.5	.043	1.1
1/4	.252	6.4	.079	2.0	.047	1.2
* 3/8	.374	9.5	.118	3.0	.051	1.3
1/2	.500	12.7	.157	4.0	.055	1.4
* 3/4	.748	19.0	.236	6.0	.071	1.8
24/8	.940	23.9	.320	8.1	.100	2.5
40/13	1.575	40.0	.512	13.0	.098	2.5
<b>Standard Colors:</b> Black						
<b>Standard Package:</b> Spooled						
<b>How to Order:</b>	(Type of material)	(Size)	(Color)	(Packaging)		
<b>Example:</b>	SM3-25	1/2	Black	Spooled		

\* non SAE-spec sizes

# SM3-25 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENTS
<b>Physical:</b> Tensile strength (psi) Elongation (%) Cold impact (-55° C) Heat shock (250° C, 4 hrs.) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D746 AMS-DTL-23053 ASTM D882 AMS-DTL-23053	1300 min. 250 min. no cracking no cracking 2.5 X 10 <sup>4</sup> max. +1, -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	300 min. 1 X 10 <sup>12</sup> min.
<b>Print Adherence:</b> Abrasion (eraser method) Fluid resistance Isopropanol / Mineral Spirits Blend Terpene Defluxer H <sub>2</sub> O / PGME / Monoethanolamine	SAE-AS5942 MIL-STD-202G, Method 215J	20 rubs  10 rubs (X3) 10 rubs (X3) 10 rubs (X3)
<b>Chemical:</b> Corrosion Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	UL 224 ASTM D570  AMS-DTL-23053 UL 224 / AFT	no corrosion 1.0 max.  900 min. Pass 110°C

Specification reference: AMS-DTL-23053/4, Class 3



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