

# SUMIMARK<sup>®</sup> SM3 - 24

AMS-DTL-23053/4, Class 2

UL224

## ADHESIVE LINED FLEXIBLE POLYOLEFIN MARKER SLEEVES

FOR USE WITH SUMIMARK III & IV MARKING SYSTEMS  
**2 : 1 Shrink Ratio**

**MILITARY SPECIFICATION & UL / CSA**



RoHS Compliant

### TYPICAL FEATURES

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| <p>1) SUMIMARK SM3 - 24 is a flexible, flame-retardant polyolefin dual wall heat-shrinkable tubing with a modified polyamide adhesive inner wall. When used in conjunction with the SUMIMARK III or IV Marking Systems, SM3 - 24 tubing produces marked sleeves that meet or exceed the mark permanence requirements of SAE-AS81531. SM3-24 is <i>not</i> compatible with earlier Model 1 and 2 Sumimark Systems.</p> <p>2) SUMIMARK SM3-24 tubing complies with the requirements of AMS-DTL-23053/4, Class 2. SUMIMARK SM3-24 is also UL recognized 125° C, 600 volts. Sumimark SM3-24 tubing is <i>not</i> compatible with earlier Sumimark Model 1 and Model 2 systems.</p> | <p>3) Shrink temperature is 110° C.</p> <p>4) Operating temperature range is -55° C to +110° C.</p> <p>5) SUMIMARK SM3 - 24 is recommended for marker sleeve applications in environmental conditions that require sealing against moisture and water or other contaminants. Recovered marker sleeves made from SM3-24 will not slide or slip across the substrate due to the presence of the inner wall of hot-melt adhesive.</p> |
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### STANDARD SIZES

NOMINAL 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	.062	1.6	.026	0.70
3/16*	.187	4.8	.093	2.4	.026	0.70
1/4	.250	6.4	.125	3.2	.030	0.75
3/8*	.375	9.5	.187	4.8	.030	0.75
1/2	.500	12.7	.250	6.4	.030	0.75
3/4	.750	19.1	.375	9.5	.035	0.90
1	1.000	25.4	.500	12.7	.042	1.10

**Standard Colors:** Black

**Standard Package:** Spooled

**How to Order:** (Type of material) (Size) (Color) (Packaging)

**Example:** SM3 - 24 1/4 Black S

\* Non-MIL spec sizes

# SM3 - 24 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Cold impact (-55° C, 4 hrs.) Heat shock (250° C, 4 hrs.) Secant modulus (psi) Longitudinal change (%)	ASTM D 638 ASTM D 638 ASTM D 746 AMS-DTL-23053 ASTM D 882 AMS-DTL-23053	1500 min. 200 min. no cracking. no cracking 2.5 X 10 <sup>4</sup> max. +5, -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	500 min. 1.0 X 10 <sup>14</sup> min.
<b>Mark Permanence:</b> Abrasion Fluid Resistance Isopropanol / Mineral Spirits Terpene Defluxer H <sub>2</sub> O / PGME / Monoethanolamine	SAE-AS81531(AS) 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 D 570  AMS-DTL-23053 UL 224	no corrosion 0.5 max.  1000 min. Pass 110°C

**Specification reference:** AMS-DTL-23053/4D, Class 2; except longitudinal change.  
 SAE-AS81531  
 UL 224, 125° C, 600 volts



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