

# SUMIMARK<sup>®</sup> SM3 - 24

AMS-DTL-23053/4, Cl. 2

UL224

## ADHESIVE LINED FLEXIBLE POLYOLEFIN MARKER SLEEVES

FOR USE WITH SUMIMARK III MARKING MACHINE

**2 : 1 Shrink Ratio**

**MILITARY SPECIFICATION & UL / CSA**



RoHS Compliant

### TYPICAL FEATURES

- 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 marking machine, SM3 - 24 tubing provides marked sleeves that meet or exceed the mark permanence requirements of SAE-AS81531.
- 2) SUMIMARK SM24 tubing complies with the requirements of AMS-DTL-23053/4, Class 2. SUMIMARK SM24 is also UL recognized 125° C, 600 volts. Sumimark SM3 - 24 tubing is *not* compatible with earlier Sumimark Model 1 and Model 2 machines.
- 3) Shrink temperature is 110° C.
- 4) Operating temperature range is -55° C to +110° C.
- 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 SM24 will not slide or slip across the substrate due to the presence of the inner wall of hot-melt adhesive.

### 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 Aqueous PGME / Monoethanolamine	SAE-AS81531(AS) MIL-STD-202F, 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



## Cable Markers Co., Inc.

22600-F Lambert St. Suite 1204

Lake Forest CA, 92630

Toll Free: 800.746.7655 Fax: 949.699.1642

Rev. 6/21/06