

ADHESIVE LINED FLEXIBLE POLYOLEFIN MARKER SLEEVES

FOR USE WITH SUMIMARK I & II MARKING SYSTEMS

2 : 1 Shrink Ratio

MILITARY SPECIFICATION & UL / CSA



RoHS/ RoHS2 Compliant

TYPICAL FEATURES

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| <p>1) SUMIMARK SM24 is a flexible, flame-retarded polyolefin dual wall heat-shrinkable tubing with a modified polyamide adhesive inner wall. When used in conjunction with the SUMIMARK marking machine, SM24 tubing provides marked sleeves that, after shrinking, meet or exceed the print adherence requirements of SAE-AS5942. <i>SM24 tubing is not compatible with Sumimark III and IV marking systems. For these systems, it is necessary to use SM3-24 tubing.</i></p> <p>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.</p> | <p>3) Shrink temperature is 110° C.</p> <p>4) Operating temperature range is -55° C to +110° C.</p> <p>5) SUMIMARK SM24 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.</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: SM24 1/4 Black S

* Non-MIL spec sizes

SM24 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: 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 ⁴ max. +5, -15
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	500 min. 1.0 X 10 ¹⁴ min.
Print Adherence: Abrasion Fluid Resistance Isopropanol / Mineral Spirits Blend Terpene Defluxer H ₂ O / PGME / Monoethanolamine	SAE-AS5942 MIL-STD-202F, Method 215J	20 rubs 10 rubs (X3) 10 rubs (X3) 10 rubs (X3)
Chemical: 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-23053/4, Class 2; except longitudinal change.
 SAE-AS5942 (Replaces cancelled specification SAE-AS81531)
 UL 224, 125° C, 600 volts



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