

OVEREXPANDED FLEXIBLE POLYOLEFIN MARKER SLEEVES
FOR USE WITH SUMIMARK III MARKING MACHINE
3 : 1 Shrink Ratio

UL RECOGNIZED 125°C 600V (VW-1)



RoHS Compliant

TYPICAL FEATURES

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| <p>1) SUMIMARK SM3 - 23 tubing is a very flexible, flame retarded, heat-shrinkable polyolefin tubing that is recognized by Underwriters' Laboratories (UL) Subject 224 as 125°C, 600V (VW-1) rated. SM23 has a 3 to 1 expansion ratio, as opposed to the normal 2 to 1 ratio. SUMIMARK SM3 - 23 also meets the material requirements of AMS-DTL-23053 / 5.</p> <p>2) SUMIMARK SM3 - 23 tubing, when used in conjunction with the SUMIMARK III marking machine, provides marked sleeves that meet or exceed the print permanence requirements of SAE-AS81531. Sumimark SM3 – 23 tubing is <i>not</i> compatible with earlier Model I and Model 2 Sumimark machines.</p> <p>3) Shrink temperature is 90°C.</p> | <p>4) Operating temperature range is -55°C to +135°C and up to 200°C for short durations.</p> <p>5) SM3 - 23 is recommended for use in general purpose applications such as wire marking, identification and electrical insulation of light wire harness assemblies. It can also provide the user with better economies, as one size tubing can often replace two standard 2:1 expanded tubing sizes, thereby reducing inventories.</p> |
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STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
1/16	.063	(1.6)	.021	(0.5)	.020	(.50)
1/8	.125	(3.2)	.043	(1.1)	.024	(.60)
3/16	.188	(4.8)	.063	(1.6)	.026	(.65)
1/4	.250	(6.4)	.083	(2.1)	.028	(.70)
3/8	.375	(9.5)	.122	(3.1)	.031	(.80)
1/2	.500	(12.7)	.165	(4.2)	.033	(.85)
3/4	.750	(19.1)	.248	(6.3)	.039	(1.0)
1	1.000	(25.4)	.327	(8.3)	.048	(1.2)
1 1/2	1.500	(38.1)	.500	(12.7)	.050	(1.3)

Standard Colors: Black, white, yellow (Other colors available per factory acceptance and quote)

Standard Package: Spooled (S)

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

Example: SM3 - 23 1/4 White S

SM3 - 23 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-55 ^o C) Heat shock (250 ^o C, 4 hrs.) Heat resistance (175 ^o C, 168 hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 AMS-DTL-23053 ASTM D638 ASTM D882 AMS-DTL-23053	1500 min. 200 min. 1.35 max. no cracking no cracking 100 min. 2.5 X 10 ⁴ max. +5, -15
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 ¹⁴ min.
Mark Permanence: Abrasion Fluid Resistance Isopropyl Alcohol/Mineral Spirits Terpene Defluxer H2O/PGME/Monoethanolamine	SAE-AS81531 MIL-STD-202F Method 215J	20 rubs 10 rubs (x3) 10 rubs (x3) 10 rubs (x3)
Chemical: Corrosion (175 ^o C, 16 hrs.) Water absorption (%) Fluid resistance (23 ^o C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	AMS-DTL-23053 ASTM D570 AMS-DTL-23053 UL 224 VW-1	no corrosion 0.5 max. 1000 min. pass 90 ^o C

Specification reference: SAE-AS81531
 UL-224 125^o C, 600V, VW-1
 File E48762 YDPU2
 CSA

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