

FLEXIBLE POLYOLEFIN MARKER SLEEVES FOR USE WITH SUMIMARK III & IV MARKING SYSTEMS 2 : 1 Shrink Ratio

MILITARY SPECIFICATION



RoHS Compliant

TYPICAL FEATURES

- | | |
|---|--|
| <p>1) SUMIMARK SM3 - 12 tubing, when used in conjunction with the SUMIMARK III or IV Marking Systems, provides marked sleeves that meet or exceed the print permanence requirements of SAE-AS81531. Sumimark SM3-12 tubing is <i>not</i> compatible with earlier Model 1 and Model 2 Sumimark systems.</p> <p>2) SUMIMARK SM3 - 12 is a very flexible, flame retarded, heat shrinkable polyolefin tubing that meets all the requirements of Military Specification AMS-DTL-23053/5C, Class 1 and Class 3, is recognized by Underwriters' Laboratories (UL) Subject 224 as 125°C, 600V (VW-1) rated, and is CSA certified.</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 - 12 is recommended for use in general purpose applications such as wire marking, identification and electrical insulation of light wire harness assemblies.</p> |
|---|--|

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)	.031	(0.8)	.017	(0.43)
3/32	.093	(2.4)	.046	(1.2)	.020	(0.51)
1/8	.125	(3.2)	.062	(1.6)	.020	(0.51)
3/16	.187	(4.8)	.093	(2.4)	.020	(0.51)
1/4	.250	(6.4)	.125	(3.2)	.025	(0.64)
3/8	.375	(9.5)	.187	(4.8)	.025	(0.64)
1/2	.500	(12.7)	.250	(6.4)	.025	(0.64)
3/4	.750	(19.1)	.375	(9.5)	.030	(0.76)
1	1.000	(25.4)	.500	(12.7)	.035	(0.89)
1 1/2	1.500	(38.1)	.750	(19.1)	.040	(1.02)
2	2.000	(50.8)	1.000	(25.4)	.045	(1.14)

Standard Colors: White, black, yellow. (Other colors available per factory quote & acceptance)

Standard Package: Spooled (S)

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

Example: SM3 - 12 1/4 Black S

SM3 - 12 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-55° C) Heat shock (250°C, 4 hrs.) Heat resistance (175°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
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 H ₂ O/PGME/Monoethanolamine	SAE-AS81531(AS) MIL-STD-202G Method 215J	20 rubs 10 rubs (x3) 10 rubs (x3) 10 rubs (x3)
Chemical: Corrosion (175°C, 16 hrs.) Water absorption (%) Fluid resistance (23°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° C

Specification reference: MIL-S-85848/1
 AMS-DTL-23053/5C, Class 1 and Class 3.
 SAE-AS81531
 UL / CSA VW-1, 125° C, 600 volts


SUMITOMO ELECTRIC
INTERCONNECT PRODUCTS INC.
www.seipusa.com

915 Armorlite Drive
 San Marcos, CA 92069

Telephone: (800) 758-3515
 FAX: (800) 758-3517

Rev. 08/31/10