

SPECIAL OVEREXPANDED FLEXIBLE POLYOLEFIN TUBING 4 : 1 Shrink Ratio



RoHS Compliant

TYPICAL FEATURES

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| <p>1) SUMITUBE® B2 (4X) is a flexible, flame-retarded heat-shrinkable polyolefin tubing, which is specially overexpanded (4:1 expansion ratio) with minimal longitudinal change (5% maximum). It meets the material and functional requirements of AMS-DTL-23053/5, Class 1 Overexpanded, with exception to wall thickness.</p> <p>2) Shrink temperature is 90°C.</p> <p>3) Operating temperature range is -55°C to +135°C and up to 200°C for short time durations.</p> | <p>4) Recommended for special purpose applications such as cable jacket retrofit or repair and electrical insulation of wire assemblies that have over sized components and connectors. Especially noteworthy is the minimum longitudinal change in length of 5% maximum after recovery, a unique feature not normally found in 4 : 1 shrink ratio tubing.</p> <p>5) For continuous lengths on spools, see Sumitube® B2(4XC).</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 | 1.000 | 25.4 | .260 | 6.6 | .059 | 1.50 |
| 1 1/2 | 1.500 | 38.1 | .375 | 9.5 | .059 | 1.50 |
| 2 | 2.000 | 50.4 | .500 | 12.7 | .059 | 1.50 |
| 3 | 3.000 | 76.2 | .750 | 19.1 | .059 | 1.50 |
| 4 | 4.000 | 101.6 | 1.000 | 25.4 | .059 | 1.50 |

Standard Colors: Black only
Standard Package: 4 feet (for 1" to 2")
 3 feet (for 3" or 4")
How to Order: (Type of material) (Size) (Color) (Packaging)
Example: B2 (4X) 1.00 Black 4'

B2 (4X) 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. |
| 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 references: AMS-DTL-23053/5C, Class 1, Overexpanded (except wall thickness).
 UL 224 File E70631 YDQS2.

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