

SUMITUBE® B2 (4XC) AMS-DTL-23053/5, Cl. 1 Overexpanded UL224

OVEREXPANDED FLEXIBLE POLYOLEFIN TUBING, SPOOLED 4 : 1 Shrink Ratio

MILITARY SPECIFICATION and UL



RoHS Compliant

TYPICAL FEATURES

- 1) SUMITUBE® B2(4XC) is a flexible, flame-retarded heat-shrinkable polyolefin tubing, which is specially overexpanded (4:1 expansion ratio). It meets the material and functional requirements of AMS-DTL-23053/5, Class 1 Overexpanded
- 2) Shrink temperature is 90°C.
- 3) Operating temperature range is -55°C to +135°C and up to 200°C for short time durations.
- 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.

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 | .045 | 1.14 |
| 1 1/2 | 1.500 | 38.1 | .375 | 9.5 | .045 | 1.14 |
| 2 | 2.000 | 50.4 | .550 | 14.0 | .045 | 1.14 |

Standard Colors: Black only

Standard Package: Spooled

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

Example: B2 (4XC) 1 Black S

B2 (4XC) 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 to -15 |
| 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-23053/5, Class 1, Overexpanded
 UL 224 File E70631 YDQS2.

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