

# 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<br>AS SUPPLIED<br>(MIN) |      | INSIDE DIAMETER<br>AFTER RECOVERY<br>(MAX) |      | WALL THICKNESS<br>AFTER RECOVERY<br>(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   |
|---|--|---|
| <b>Physical:</b><br>Tensile strength (psi)<br>Elongation (%)<br>Specific gravity<br>Low temperature flex. (-55°C)<br>Heat shock (250°C 4 hrs.)<br>Heat resistance (175°C 168 hrs.)<br>Elongation (%)<br>Secant modulus (psi)<br>Longitudinal change (%) | ASTM D638<br>ASTM D638<br>ASTM D792<br>AMS-DTL-23053<br>AMS-DTL-23053<br><br>ASTM D638<br>ASTM D882<br>AMS-DTL-23053 | 1500 min.<br>200 min.<br>1.35 max.<br>no cracking<br>no cracking<br><br>100 min.<br>2.5 X 10 <sup>4</sup> max.<br>+5 to -15 |
| <b>Electrical:</b><br>Dielectric strength (volts/mil)<br>Volume resistivity (ohm-cm)  | ASTM D876<br>ASTM D876   | 500 min.<br>1.0 X 10 <sup>14</sup> min.   |
| <b>Chemical:</b><br>Corrosion (175°C 16 hrs.)<br>Water absorption (%)<br>Fluid resistance (23°C, 24 hrs.)<br>Tensile strength (psi)<br>Flammability<br>Shrink temperature, nominal  | AMS-DTL-23053<br>ASTM D570<br><br>AMS-DTL-23053<br>UL 224 VW-1   | no corrosion<br>0.5 max.<br><br>1000 min.<br>Pass<br>90°C   |

**Specification references:** AMS-DTL-23053/5, Class 1, Overexpanded  
 UL 224 File E70631 YDQS2.



915 Armorlite Drive  
 San Marcos, CA 92069

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