

# SUMITUBE® O2B2

AMS-DTL-23053/4, Cl. 2

UL / CSA

## FLEXIBLE POLYOLEFIN WITH ADHESIVE LINER 2 : 1 Shrink Ratio

### MILITARY SPECIFICATION & UL / CSA



RoHS Compliant

<b>TYPICAL FEATURES</b>	
<p>1) SUMITUBE O2B2 is a flexible, flame-retarded polyolefin heat-shrinkable tubing with a modified polyamide adhesive inner wall which melts and flows, sealing components contained within.</p> <p>2) SUMITUBE O2B2 meets the material and functional requirements of AMS-DTL-23053/4, Class 2.</p> <p>3) Shrink temperature is 110° C.</p>	<p>4) Operating temperature range is -55° C to +110° C.</p> <p>5) SUMITUBE O2B2 is recommended for applications in environmental conditions that require sealing against moisture and water or other contaminants.</p>

<b>STANDARD SIZES</b>						
<b>NOMINAL SIZE</b>	<b>INSIDE DIAMETER AS SUPPLIED (MIN)</b>		<b>INSIDE DIAMETER AFTER RECOVERY (MAX)</b>		<b>WALL THICKNESS AFTER RECOVERY (NOM)</b>	
	<b>INCH</b>	<b>(MM)</b>	<b>INCH</b>	<b>(MM)</b>	<b>INCH</b>	<b>(MM)</b>
1/8*	.125	3.2	.062	1.6	.026	0.70
3/16*	.187	4.8	.093	2.4	.026	0.70
1/4	.250	6.4	.125	3.2	.030	0.75
3/8*	.375	9.5	.187	4.8	.030	0.75
1/2	.500	12.7	.250	6.4	.030	0.75
5/8*	.625	15.9	.313	7.9	.033	0.85
3/4	.750	19.1	.375	9.5	.035	0.90
1	1.000	25.4	.500	12.7	.042	1.10
1 1/4 *	1.250	31.8	.625	15.9	.047	1.20
1 1/2	1.500	38.1	.750	19.1	.047	1.20
2*	2.000	50.8	1.000	25.4	.053	1.35

**Standard Colors:** Black

**Standard Package:** 4'

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

**Example:**      O2B2      1/4      Black      4 foot

\* Non SAE-Spec sizes

## O2B2 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Cold impact (-55° C, 4 hrs.) Heat shock (250° C, 4 hrs.) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D746 AMS-DTL-23053 ASTM D882 AMS-DTL-23053	1500 min. 200 min. no cracking. no cracking 2.5 X 10 <sup>4</sup> max. +1, -5
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 <sup>14</sup> min.
<b>Chemical:</b> Corrosion Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	UL 224 ASTM D570  AMS-DTL-23053 UL 224	no corrosion 0.5 max.  1000 min. Pass 110°C

**Specification reference:**

UL 224, 125° C, 600V  
 File E75077 YDTU2, Cat. No. 841 or SUMITUBE 02B2  
 CSA LR33298  
 AMS-DTL-23053/4D



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