

## FLEXIBLE POLYOLEFIN WITH ADHESIVE LINER CONTINUOUS LENGTHS ON SPOOLS 2 : 1 Shrink Ratio



RoHS/RoHS2 Compliant

### TYPICAL FEATURES

1. SUMITUBE O2B2S is a flexible, flame-retarded polyolefin heat-shrinkable tubing with a modified polyamide adhesive inner wall which melts and flows, sealing components contained within.
2. SUMITUBE O2B2S meets the material and functional requirements of AMS-DTL-23053/4, Class 2, with the exception of longitudinal change.
3. Shrink temperature is 110° C.
4. SUMITUBE O2B2S is packaged in continuous lengths on spools making it ideally suited for applications requiring cut pieces with minimal waste.
5. Operating temperature range is -55° C to +110° C.
6. SUMITUBE O2B2S is recommended for applications in environmental conditions that require sealing against moisture and water or other contaminants.

### STANDARD SIZES

NOMINAL SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
*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:** Spooled  
**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:** O2B2S 1/4 Black Spooled

\* Non SAE-Spec sizes

# O2B2S 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. +5, -15
<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. SUMITUBE 02B2S  
 CSA LR33298  
 AMS-DTL-23053/4, Class 2 except longitudinal change



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