

# SUMITUBE<sup>®</sup> O2

## FLEXIBLE POLYOLEFIN WITH THIN WALL ADHESIVE AUTOMOTIVE BRAKE & FUEL LINE PROTECTION

RoHS/RoHS2 Compliant     Lead-Free     Halogen-Free

### TYPICAL FEATURES

- 1) SUMITUBE O2 is a flexible, heat-shrinkable polyolefin tubing with a very thin wall hot-melt adhesive liner which melts and flows, sealing components contained within.
- 2) Shrink temperature is 115°C.
- 3) Operating temperature range is -35°C to +100°C.
- 4) SUMITUBE O2 is specially designed for application on automotive brake or fuel pipes providing mechanical protection and protection against corrosion caused by fluid, water, or chemical penetration.

### 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)
6	0.236	6.0	0.177	4.5	0.047	1.2
8	0.315	8.0	0.240	6.1	0.051	1.2
10	0.394	10.0	0.272	6.9	0.059	1.5
11.5	0.433	11.0	0.272	6.9	0.059	1.5
12	0.472	12.0	0.177	4.5	0.047	1.2
15	0.591	15.0	0.394	10.0	0.055	1.4

**Standard Colors:** Black only  
**Standard Package:** Coiled lengths. (Cut to order also available, contact SEIP).  
**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:** O2 6 Black L

## O2 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Tensile strength after heat aging (psi) Elongation after heat aging (%) Longitudinal change (%) Deformation resistance (%) Impact resistance Brittle point ( <sup>o</sup> C)	ASTM D638 ASTM D638 At 120 <sup>o</sup> C for 24 hrs. At 120 <sup>o</sup> C for 24 hrs. AMS-DTL 23053 At 140 <sup>o</sup> C under 28 psi JIS C 3004 ASTM D746	1700 min. 300 min. 1700 min. 270 min. ±5 60 min. no cracking - 35 max.
<b>Chemical:</b> Corrosion Water absorption (%) Fluid resistance    H <sub>2</sub> S <sub>0</sub> <sub>4</sub> NaOH Brake Fluid	AMS-DTL-23053 (121 <sup>o</sup> C,16 hrs.) ASTM D570 At 23 <sup>o</sup> C for 24 hrs. At 23 <sup>o</sup> C for 24 hrs. At 23 <sup>o</sup> C for 24 hrs.	no corrosion 0.2 max. no cracking no cracking no cracking



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