

COMMERCIAL GRADE SEMI-RIGID POLYOLEFIN 2 : 1 Shrink Ratio

- RoHS Compliant**

 Lead-Free

 Halogen-Free

TYPICAL FEATURES

- | | |
|---|---|
| <p>1) SUMITUBE D is a lightweight, semi-rigid, heat-shrinkable polyolefin tubing which has excellent mechanical strength with good electrical properties and chemical resistance. Sumitube D meets the material and functional requirements of AMS-DTL-23053/6, Class 2 with the exception of longitudinal change.</p> <p>2) Shrink temperature is 130° C</p> | <p>3) Operating temperature range is -55° C to +135° C.</p> <p>4) SUMITUBE D should be considered in applications where strain relief, mechanical strength or abrasion resistance is a factor. Examples would be in protecting solder or crimped wire terminations on light wire harnesses.</p> |
|---|---|

STANDARD SIZES

| SIZE | INSIDE DIAMETER AS SUPPLIED (MIN) | | INSIDE DIAMETER AFTER RECOVERY (MAX) | | WALL THICKNESS AFTER RECOVERY (NOM) | |
|------|---|------|--|------|---|------|
| | INCH | (MM) | INCH | (MM) | INCH | (MM) |
| 3/64 | .046 | 1.2 | .023 | 0.6 | .020 | 0.51 |
| 1/16 | .063 | 1.6 | .031 | 0.8 | .020 | 0.51 |
| 3/32 | .093 | 2.4 | .046 | 1.2 | .020 | 0.51 |
| 1/8 | .125 | 3.2 | .062 | 1.6 | .020 | 0.51 |
| 3/16 | .187 | 4.8 | .093 | 2.4 | .025 | 0.64 |
| 1/4 | .250 | 6.4 | .125 | 3.2 | .025 | 0.64 |
| 3/8 | .375 | 9.5 | .187 | 4.8 | .030 | 0.76 |
| 1/2 | .500 | 12.7 | .250 | 6.4 | .035 | 0.89 |

Standard Colors: Black and Clear (translucent)
Standard Package: 4 feet (4')
How to Order: (Type of material) (Size) (Color) (Packaging)
Example: D 1/4 Black 4'

D SPECIFICATION VALUES

| PROPERTY (UNITS) | TEST METHOD | REQUIREMENT |
|---|---|---|
| Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55° C) Heat resistance (175° C, 168 hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%) | ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 ASTM D638 ASTM D882 AMS-DTL-23053 | 2000 min. 200 min. 1.0 max. no cracking 100 min. 2.5 X 10 ⁴ min. +5, -15 |
| Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm) | ASTM D876 ASTM D876 | 500 min. 1.0 X 10 ¹⁶ 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 D 570 AMS-DTL-23053 | no corrosion 1.0 max. 1600 min. N/A 130° C |

Specification reference: AMS-DTL-23053/6D, Class 2 except longitudinal change.



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