

COMMERCIAL GRADE SEMI-RIGID POLYOLEFIN 2 : 1 Shrink Ratio

 **RoHS/RoHS2 Compliant**
 **Lead-Free**
 **Halogen-Free**

TYPICAL FEATURES

- 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.
- 2) Shrink temperature is 130° C
- 3) Operating temperature range is -55° C to +135° C.
- 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.

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-23053/6, Class 2 except longitudinal change.



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Rev. 6/20/12