

COMMERCIAL GRADE SEMI-RIGID POLYOLEFIN 2 : 1 Shrink Ratio

RoHS Compliant

 Lead-Free

 Halogen-Free

TYPICAL FEATURES

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| <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> |
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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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