

FLEXIBLE CLEAR POLYOLEFIN 2 : 1 Shrink Ratio

MILITARY SPECIFICATION



RoHS/RoHS2 Compliant



Lead-Free



Halogen-Free

TYPICAL FEATURES

- 1) SUMITUBE A2 is a flexible, clear polyolefin heat-shrinkable tubing which meets all of the material and functional requirements of Military Specification AMS-DTL-23053/5, Class 2
- 2) Shrink temperature is 110° C.
- 3) Operating temperature range is -55°C to +135°C and up to 200°C for short time durations.
- 4) A2 is recommended for general purpose applications such as electrical insulation or light weight harness jacketing, where visual inspection of the substrate is desirable. For 3 : 1 shrink version see A2(3X) data sheet.

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	.016	0.40
1/16	.063	1.6	.031	0.8	.017	0.43
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	.020	0.51
1/4	.250	6.4	.125	3.2	.025	0.64
3/8	.375	9.5	.187	4.8	.025	0.64
1/2	.500	12.7	.250	6.4	.025	0.64
3/4	.750	19.1	.375	9.5	.030	0.76
1	1.000	25.4	.500	12.7	.035	0.89
1 1/4*	1.250	31.8	.625	15.9	.038	0.97
1 1/2	1.500	38.1	.750	19.1	.040	1.02
2	2.000	50.8	1.000	25.4	.045	1.14
3	3.000	76.2	1.500	38.1	.050	1.27
4	4.000	101.6	2.000	50.8	.055	1.40

Standard Colors: Clear only

Standard Package: Spooled (S) or 4 foot lengths (4')

How to Order: (Type of material) (Size) (Color) (Packaging)

Example: A2 1/4 Clear S

* non - SAE spec size

A2 Specification Values

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-55° C) Heat shock (250° C, 4 hrs.) Heat resistance (175° C, 168 hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 AMS-DTL-23053 ASTM D638 ASTM D882 AMS-DTL-23053	1500 min. 200 min, 1.00 max. no cracking no cracking 100 min. 25 x 10 ⁴ max. ±5
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 ¹⁴ 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 D570 AMS-DTL- 23053	no corrosion 0.2 max. 1000 min. N/A 110° C

Specification reference: AMS-DTL-23053/5, Class 2


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