SUMITUBE® A2

AMS-DTL-23053/5, Class 2

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) INCH	(MM)	INSIDE DIAMETER AFTER RECOVERY (MAX) INCH	(MM)	WALL THICKNESS AFTER RECOVERY (NOM) 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)	ASTM D638	1500 min.
Elongation (%)	ASTM D638	200 min,
Specific gravity	ASTM D792	1.00 max.
Low temperature flex (-55° C)	AMS-DTL-23053	no cracking
Heat shock (250° C, 4 hrs.)	AMS-DTL-23053	no cracking
Heat resistance (175° C, 168 hrs.)		
Elongation (%)	ASTM D638	100 min.
Secant modulus (psi)	ASTM D882	25×10^4 max.
Longitudinal change (%)	AMS-DTL-23053	± 5
Electrical:		
Dielectric strength (volts/mil)	ASTM D876	500 min.
Volume resistivity (ohm-cm)	ASTM D876	1.0×10^{14} min.
Chemical:		
Corrosion (175° C, 16 hrs.)	AMS-DTL-23053	no corrosion
Water absorption (%)	ASTM D570	0.2 max.
Fluid resistance (23° C, 24 hrs.)		
Tensile strength (psi)	AMS-DTL- 23053	1000 min.
Flammability		N/A
Shrink temperature, nominal		110° C

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

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