

FLEXIBLE CHLORINATED POLYOLEFIN 2 : 1 Shrink Ratio

MILITARY SPECIFICATION



RoHS Compliant

TYPICAL FEATURES

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| <p>1) SUMITUBE R10 is a rubber-like, flame retarded chlorinated polyolefin heat-shrinkable tubing which meets or exceeds all the requirements of Military Specifications AMS-DTL-23053/1C Classes 1 and 2.</p> <p>2) Shrink temperature is 130° C.</p> | <p>3) Operating temperature range is -75° C to +120° C and up to 200° C for short durations.</p> <p>4) SUMITUBE R10 is recommended for general purpose applications which require excellent abrasion and chemical resistance, such as diesel fuel environments. R10 has excellent properties at low temperatures.</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)
1/8*	.125	3.2	.062	1.6	.027	0.70
3/16*	.187	4.8	.093	2.4	.033	0.84
1/4	.250	6.4	.125	3.2	.035	0.90
3/8	.375	9.5	.187	4.8	.040	1.00
1/2	.500	12.7	.250	6.4	.048	1.20
5/8	.625	15.9	.315	8.0	.051	1.30
3/4	.750	19.1	.375	9.5	.057	1.40
7/8	.875	22.2	.433	11.0	.065	1.65
1	1.000	25.4	.500	12.7	.070	1.80
1 1/4	1.250	31.8	.625	15.9	.080	2.00
1 1/2	1.500	38.1	.750	19.1	.080	2.00
1 3/4	1.750	44.5	.875	22.2	.095	2.40
2	2.000	50.8	1.000	25.4	.110	2.79
3	3.000	76.2	1.500	38.1	.125	3.17
4	4.000	101.6	2.000	50.8	.140	3.55

Standard Colors: Black

Standard Package: Spooled (S)

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

Example: R10 1/4 Black S

* Non MIL-Spec sizes

R10 Specification Values

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-75° C) Heat shock (200° C, 4 hrs) Heat resistance (150° C, 168 hrs.) Elongation (%) Tensile stress (psi) (@200% elongation) Longitudinal change (%)	ASTM D 638 ASTM D 638 ASTM D 792 AMS-DTL-23053 AMS-DTL-23053 ASTM D 638 ASTM D 412 AMS-DTL-23053	1500 min. 250 min. 1.3 max. no cracking no cracking 200 min. 2500 max. +5, -10
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	300 min. 1.0 X 10 ¹¹ min.
Chemical: Corrosion (150° C, 16 hrs.) Water absorption (%) Fluid resistance (23° C, 24 hrs.) Tensile strength Flammability Shrink temperature, nominal	AMS-DTL-23053 ASTM D570 AMS-DTL-23053 AMS-DTL-23053	no corrosion 1.0 max. 1000 min. pass 130° C

Specification references: AMS-DTL-23053/1C, Class 1 and Class 2

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