

SUMITUBE® R10

FLEXIBLE CHLORINATED POLYOLEFIN

MILITARY SPECIFICATIONS

TYPICAL FEATURES

- 1) SUMITUBE R10 is a rubber-like, flame retarded chlorinated polyolefin heat-shrinkable tubing which meets or exceeds all the requirements of Military Specifications MIL-DTL-23053/1C Classes 1 and 2.
- 2) Shrink temperature is 150°C.
- 3) Operating temperature range is -75°C to +120°C and up to 200°C for short time durations.
- 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.

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	.095	2.40

Standard Colors: Black

Standard Package: Spooled (S)

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

Example: R10 1/4 Black S



SUMITOMO ELECTRIC



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 MIL-DTL-23053 MIL-DTL-23053 ASTM D 638 ASTM D 412 MIL-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	MIL-DTL-23053 ASTM D570 MIL-DTL-23053 MIL-DTL-23053	no corrosion 1.0 max. 1000 min. pass 150° C

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