

SUMITUBE® R120

FLEXIBLE ELASTOMERIC POLYOLEFIN

MILITARY SPECIFICATION

TYPICAL FEATURES

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| <p>1) SUMITUBE R120 is a heat-shrinkable flame retarded elastomer tubing specifically formulated for long term resistance to fluids, heat and mechanical abuse.</p> <p>2) SUMITUBE R120 offers superior protection against aviation and diesel fuels, hydraulic fluids, greases and lubricants.</p> <p>3) SUMITUBE R120 meets or exceeds the requirements of MIL-DTL-23053/16B.</p> | <p>4) Shrink temperature is 150° C.</p> <p>5) Operating temperature range is -75° C to +120° C.</p> <p>6) SUMITUBE R120 is recommended for protecting cables and wire harnesses on military ground vehicles. It is ideal for a variety of applications requiring ruggedness and fluid resistance.</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	.028	0.70
3/16	.187	4.8	.093	2.4	.031	0.80
1/4	.250	6.4	.125	3.2	.035	0.90
3/8	.375	9.5	.187	4.8	.039	1.00
1/2	.500	12.7	.250	6.4	.047	1.20
3/4	.750	19.1	.375	9.5	.059	1.50
1	1.000	25.4	.500	12.7	.071	1.80
1 1/2	1.500	38.1	.750	19.1	.094	2.40
2	2.000	50.8	1.000	25.4	.110	2.80

Standard Colors: Black

Standard Package: Spooled (S)

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

Example: R120 1/2 Black S



SUMITOMO ELECTRIC

R120 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-65°C) Heat shock(200° C, 4 hrs) Heat resistance (150°C, 168 hrs.) Tensile stress (psi) Elongation (%) Tensile stress @ 100% elongation (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 MIL-DTL-23053 MIL-DTL-23053 ASTM D638 ASTM D638 ASTM D412 MIL-DTL-23053	1700 min. 250 min. 1.5 max. Pass Pass 1500 min. 200 min. 1500 max. ±10
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	300 min. 1.0 X 10 ¹⁰ min.
Chemical: Corrosion, copper contact (121°C, 16 hrs.) copper mirror (135°C, 16 hrs.) Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	MIL-DTL-23053 MIL-DTL-23053 ASTM D570 MIL-DTL-23053 MIL-DTL-23053	no corrosion no corrosion 2.0 max. 1500 min. Pass 150° C

Specification reference: MIL-DTL-23053/16B