

SUMITUBE® NH (TW)

NON-HALOGEN FLEXIBLE POLYOLEFIN, THIN WALL 2 : 1 Shrink Ratio

 **RoHS Compliant**
 **Lead-Free**
 **Halogen-Free**

TYPICAL FEATURES

- 1) SUMITUBE NH(TW) is a halogen free, flame-retarded, flexible, heat-shrinkable, thin-wall polyolefin tubing with reduced acid gas emission and smoke generation.
- 2) Shrink temperature is 115°C.
- 3) Operating temperature range is -55°C to +105°C.
- 4) SUMITUBE NH(TW) is recommended for use in environments where safety is an important consideration, in case of fire or overheating of electrical circuits.

STANDARD SIZES

NOMINAL 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	.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 1/2	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: Black. (Colors available by factory quote)

Standard Package: Spooled (S)

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

Example: NH (TW) 1/4 Black S

NH (TW) SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55° C) Heat shock (225°C, 4hrs.) Heat resistance (150° 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. 1.5 nom. no cracking no cracking 100 min. 2.5 x 10 ⁴ max. +5, -15
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 ¹³ min.
Chemical: Copper mirror corrosion (175° C,168 hrs.) Water absorption (%) Fluid resistance (23° C, 24 hrs.) MIL-T-5624 MIL-H-5606 MIL-L-23699 MIL-A-8243 O-S-1296 Tensile strength (psi) Dielectric strength (volts/mil) Flammability Smoke index (D _m) Acid gas generation (as hydrogen halides), %	AMS-DTL-23053 ASTM D570 ASTM D638 ASTM D876 AMS-DTL-23053 (4.6.15.1) ASTM E 662 MIL-C-24643	no corrosion 1.0 max. 1,000 min., except 800 min. for MIL-T-5624 400 min. 60 seconds max. flaming mode 70 max. non-flaming mode 100 max. 0.2 max.

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