

# SUMITUBE® NH

## NON-HALOGEN FLEXIBLE POLYOLEFIN 2 : 1 Shrink Ratio



RoHS Compliant



Lead-Free



Halogen-Free

### TYPICAL FEATURES

1) SUMITUBE NH is a halogen free, flame retarded, flexible, heat-shrinkable polyolefin tubing that has excellent flame retardancy with reduced acid gas emission and smoke generation.

Shrink temperature is 115°C.

3) Operating temperature range is -55°C to +105°C.

4) SUMITUBE NH is recommended for use in environments where safety is an important consideration, in case of fire or overheating of electrical circuits.

### 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
3/4	.750	19.1	.375	9.5	.057	1.40
1	1.000	25.4	.500	12.7	.070	1.80
1 1/2	1.500	38.1	.750	19.1	.080	2.00
2	2.000	50.8	1.000	25.4	.095	2.40

**Standard Colors:** Black. (Colors available by factory quote)

**Standard Package:** Spooled (S)

**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:** NH 1/4 Black S

# NH SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55°C) Heat shock (225°C, 4 hrs.) 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 <sup>4</sup> max. +5 to -15
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1 X 10 <sup>13</sup> min.
<b>Chemical:</b> 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-L-7808 MIL-A-8243 O-S-1296 Tensile strength (psi)  Dielectric strength (volts/mil) Flammability Smoke index (D <sub>m</sub> )  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.          1000 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.


**SUMITOMO ELECTRIC**  
**INTERCONNECT PRODUCTS INC.**  
[www.seipusa.com](http://www.seipusa.com)

915 Armorlite Drive  
 San Marcos, CA 92069

Telephone: (800) 758-3515  
 FAX: (800) 758-3517  
 Rev. 7/1/05