

## FLEXIBLE POLYOLEFIN, THIN WALL Flame Retarded, Halogen and Antimony Free 2 : 1 Shrink Ratio

 **RoHS Compliant**

 **Lead-Free**

 **Halogen-Free**

### TYPICAL FEATURES

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| <p>1) SUMITUBE NHR2 is a very flexible, flame-retarded, radiation-crosslinked heat shrinkable polyolefin tubing that contains no halogens, is lead-free, and contains no antimony, satisfying many requirements for environmentally friendly components.</p> <p>2) Shrink temperature is 115°C.</p> | <p>3) Sumitube NHR2 is a UL recognized component that is rated at 125° C, 600 volts. It meets the stringent flammability requirements of VW-1.</p> <p>4) Sumitube NHR2 is recommended for applications requiring high heat and flame resistance where the use of halogen containing products is not permitted. A very thin wall version, Sumitube NHR4, is also available. Please refer to the NHR4 data sheet for further information.</p> |
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### STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (MIN)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
1 x 0.2	0.039	1.00	0.020	0.50	0.013	0.33
1.5 x 0.2	0.059	1.50	0.030	0.75	0.014	0.36
2 x 0.2	0.079	2.00	0.039	1.00	0.017	0.43
2.5 x 0.25	0.098	2.50	0.049	1.25	0.017	0.43
3 x 0.25	0.118	3.00	0.059	1.50	0.017	0.44
3.5 x 0.25	0.138	3.50	0.069	1.75	0.017	0.44
4 x 0.25	0.157	4.00	0.079	2.00	0.017	0.44
5 x 0.25	0.197	5.00	0.098	2.50	0.017	0.44
6 x 0.25	0.236	6.00	0.118	3.00	0.017	0.44
7 x 0.25	0.276	7.00	0.138	3.50	0.017	0.44
8 x 0.25	0.315	8.00	0.157	4.00	0.022	0.56
9 x 0.25	0.354	9.00	0.177	4.50	0.022	0.56
10 x 0.25	0.394	10.0	0.197	5.00	0.022	0.56

**Standard Colors:** Black only

**Standard Package:** Spooled (S)

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

**Example:** NHR2 3.5 Black S

# NHR2 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Cold bend, 1hr. / -30° C Heat shock (250° C, 4 hrs.) Heat resistance (158° C, 1 week, followed by) Tensile strength (psi) Elongation (%)	UL224 UL224 UL224 UL224 UL224 UL224	1500 min. 200 min. no cracking no cracking 1000 min. 100 min.
<b>Electrical:</b> Dielectric voltage withstand, 1 min. 2500VAC After aging, 158° C, 1 week Dielectric voltage breakdown After aging, 158° C, 1 week Volume resistivity (ohm-cm)	UL224 UL224 UL224	pass pass 2500 volts AC min. >50% of unaged value 1.0 X 10 <sup>14</sup> min.
<b>Chemical:</b> Copper stability, 158° C, 1 week % elong. Flammability Shrink temperature, nominal	UL224 UL 224 VW-1 ---	100 min. pass 115° C

Specification references: UL 224 125° C, 600 V, VW-1 File E48762



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