

## ZH2

**Flexible, Highly Flame-Retardant, Low Recovery Temperature, ZEROHAL Polyolefin Tubing**

### Product Facts

- 2:1 shrink ratio
- Highly flame-retardant; UL/CSA VW-1 flammability rating
- Environmentally friendly tubing essentially free of halogens
- Emits minimal amounts of toxic or acid gasses when burned
- RoHS compliant



### Applications

Electrical insulation and strain relief of connections and terminations in computers, appliances, and other commercial electronic products. Jacketing and bundling of light duty harnesses in rail and mass transit vehicles, buildings, and other enclosed areas where emission of toxic gasses from burning materials containing halogens is very undesirable.

### Installation

Minimum shrink temperature: 70°C [158°F]  
Minimum full recovery temperature: 90°C [194°F]

### Operating Temperature Range

-30°C to 125°C  
[-22°F to 257°F]

### Specifications/Approvals

| Series | UL  | CSA  | Raychem |
|--------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|
| ZH2    | E35586 VW-1<br>600 V, 125°C                                                            | LR31929 VW-1<br>600 V, 125°C                                                             | RW-3036 |

| Available in: | Americas | Europe | Asia Pacific |
|---------------|----------|--------|--------------|
|               | ■        | ■      | ■            |

## ZH2 (Continued)

### Product Dimensions

| Size | Inside Diameter            |                                 | Wall Thickness                 |                                    |
|------|----------------------------|---------------------------------|--------------------------------|------------------------------------|
|      | Expanded as Supplied       | Maximum Recovered After Heating | Expanded as Supplied (Nominal) | Recovered* After Heating (Minimum) |
| 0.8  | 1.2 ± 0.2 [0.047 ± 0.008]  | 0.40 [0.016]                    | 0.20 [0.008]                   | 0.33 [0.013]                       |
| 1.0  | 1.5 ± 0.2 [0.059 ± 0.008]  | 0.50 [0.020]                    | 0.20 [0.008]                   | 0.33 [0.013]                       |
| 1.5  | 2.1 ± 0.2 [0.075 ± 0.008]  | 0.75 [0.030]                    | 0.20 [0.008]                   | 0.34 [0.013]                       |
| 2.0  | 2.6 ± 0.2 [0.102 ± 0.008]  | 1.00 [0.039]                    | 0.25 [0.010]                   | 0.43 [0.017]                       |
| 2.5  | 3.1 ± 0.2 [0.122 ± 0.008]  | 1.25 [0.049]                    | 0.25 [0.010]                   | 0.43 [0.017]                       |
| 3.0  | 3.6 ± 0.2 [0.142 ± 0.008]  | 1.50 [0.059]                    | 0.25 [0.010]                   | 0.43 [0.017]                       |
| 3.5  | 4.1 ± 0.3 [0.161 ± 0.012]  | 1.75 [0.069]                    | 0.25 [0.010]                   | 0.43 [0.017]                       |
| 4.0  | 4.6 ± 0.3 [0.181 ± 0.012]  | 2.00 [0.079]                    | 0.25 [0.010]                   | 0.43 [0.017]                       |
| 5.0  | 5.6 ± 0.3 [0.221 ± 0.012]  | 2.50 [0.098]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 6.0  | 6.6 ± 0.3 [0.260 ± 0.012]  | 3.00 [0.118]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 7.0  | 7.6 ± 0.3 [0.299 ± 0.012]  | 3.50 [0.138]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 8.0  | 8.6 ± 0.3 [0.339 ± 0.012]  | 4.00 [0.158]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 9.0  | 9.6 ± 0.3 [0.378 ± 0.012]  | 4.50 [0.177]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 10.0 | 10.4 ± 0.3 [0.409 ± 0.012] | 5.00 [0.197]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 11.0 | 11.4 ± 0.3 [0.449 ± 0.012] | 5.50 [0.217]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 12.0 | 12.7 ± 0.3 [0.500 ± 0.012] | 6.00 [0.236]                    | 0.30 [0.012]                   | 0.56 [0.022]                       |
| 13.0 | 13.5 ± 0.3 [0.532 ± 0.012] | 6.50 [0.256]                    | 0.35 [0.014]                   | 0.66 [0.026]                       |
| 14.0 | 14.4 ± 0.4 [0.567 ± 0.016] | 7.00 [0.276]                    | 0.35 [0.014]                   | 0.68 [0.027]                       |
| 15.0 | 15.7 ± 0.4 [0.618 ± 0.016] | 7.50 [0.295]                    | 0.35 [0.014]                   | 0.68 [0.027]                       |
| 16.0 | 16.9 ± 0.4 [0.665 ± 0.016] | 8.00 [0.315]                    | 0.35 [0.014]                   | 0.68 [0.027]                       |
| 18.0 | 19.0 ± 0.4 [0.748 ± 0.016] | 9.00 [0.354]                    | 0.40 [0.016]                   | 0.76 [0.030]                       |
| 20.0 | 21.4 ± 0.4 [0.843 ± 0.016] | 10.00 [0.394]                   | 0.40 [0.016]                   | 0.76 [0.030]                       |
| 22.0 | 23.2 ± 0.4 [0.913 ± 0.016] | 11.00 [0.433]                   | 0.45 [0.018]                   | 0.89 [0.035]                       |
| 25.0 | 26.8 ± 0.4 [1.055 ± 0.016] | 12.50 [0.452]                   | 0.45 [0.018]                   | 0.89 [0.035]                       |
| 27.0 | 28.2 ± 0.5 [1.110 ± 0.020] | 12.50 [0.452]                   | 0.45 [0.018]                   | 0.89 [0.035]                       |
| 28.0 | 30.0 ± 0.5 [1.181 ± 0.020] | 14.00 [0.551]                   | 0.45 [0.018]                   | 0.89 [0.035]                       |
| 30.0 | 32.1 ± 0.5 [1.264 ± 0.020] | 15.00 [0.591]                   | 0.45 [0.018]                   | 0.89 [0.035]                       |

\*Wall thickness will be less if tubing recovery is restricted during shrinkage.

### Ordering Information

|                      |                                                                                         |            |
|----------------------|-----------------------------------------------------------------------------------------|------------|
| Color                | Standard                                                                                | Black (-0) |
| Size selection       | Always order the largest size that will shrink snugly over the component to be covered. |            |
| Standard packaging   | On spools.                                                                              |            |
| Ordering description | Specify product name, size and color (for example, ZH2-6.0-0).                          |            |

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