

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

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 711 °	CSA 🎧	Raychem	
ZH2	E35586 VW-1	LR31929 VW-1	RW-3036	
	600 V, 125°C	600 V, 125°C		

Available in:	Americas	Europe	Asia Pacific	
		•	•	



RAYCHEM Tubing Products

ZH2 (Continued)

Product Dimensions

SizeExpanded as SuppliedMaximum Recovered After HeatingExpanded as SuppliedRecovered After Heating (Nominal)Recovered After Heating (Nominal) 0.8 $1.2 \pm 0.2 [0.047 \pm 0.008]$ $0.40 [0.016]$ $0.20 [0.008]$ $0.33 [0.0]$ 1.0 $1.5 \pm 0.2 [0.059 \pm 0.008]$ $0.50 [0.020]$ $0.20 [0.008]$ $0.33 [0.0]$ 1.5 $2.1 \pm 0.2 [0.075 \pm 0.008]$ $0.75 [0.030]$ $0.20 [0.008]$ $0.34 [0.0]$ 2.0 $2.6 \pm 0.2 [0.102 \pm 0.008]$ $1.00 [0.039]$ $0.25 [0.010]$ $0.43 [0.0]$ 2.5 $3.1 \pm 0.2 [0.122 \pm 0.008]$ $1.25 [0.049]$ $0.25 [0.010]$ $0.43 [0.0]$ 3.0 $3.6 \pm 0.2 [0.142 \pm 0.008]$ $1.50 [0.059]$ $0.25 [0.010]$ $0.43 [0.0]$ 3.5 $4.1 \pm 0.3 [0.161 \pm 0.012]$ $1.75 [0.069]$ $0.25 [0.010]$ $0.43 [0.0]$ 4.0 $4.6 \pm 0.3 [0.181 \pm 0.012]$ $2.00 [0.079]$ $0.25 [0.010]$ $0.43 [0.0]$ 5.0 $5.6 \pm 0.3 [0.221 \pm 0.012]$ $2.50 [0.098]$ $0.30 [0.012]$ $0.56 [0.0]$ 6.0 $6.6 \pm 0.3 [0.260 \pm 0.012]$ $3.00 [0.118]$ $0.30 [0.012]$ $0.56 [0.0]$ 7.0 $7.6 \pm 0.3 [0.299 \pm 0.012]$ $3.50 [0.138]$ $0.30 [0.012]$ $0.56 [0.0]$ 8.0 $8.6 \pm 0.3 [0.398 \pm 0.012]$ $4.50 [0.177]$ $0.30 [0.012]$ $0.56 [0.0]$ 10.0 $10.4 \pm 0.3 [0.409 \pm 0.012]$ $5.50 [0.217]$ $0.30 [0.012]$ $0.56 [0.0]$ 11.0 $11.4 \pm 0.3 [0.500 \pm 0.012]$ $5.50 [0.217]$ $0.30 [0.012]$ $0.56 [0.0]$ 12.0 $12.7 \pm 0.3 [0.500 \pm 0.012]$ 6.50	Wall Thickness	
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$\begin{array}{c} 1.5 & 2.1 \pm 0.2 [0.075 \pm 0.008] & 0.75 [0.030] & 0.20 [0.008] & 0.34 [0.02] \\ 2.0 & 2.6 \pm 0.2 [0.102 \pm 0.008] & 1.00 [0.039] & 0.25 [0.010] & 0.43 [0.02] \\ 2.5 & 3.1 \pm 0.2 [0.122 \pm 0.008] & 1.25 [0.049] & 0.25 [0.010] & 0.43 [0.02] \\ 3.0 & 3.6 \pm 0.2 [0.142 \pm 0.008] & 1.50 [0.059] & 0.25 [0.010] & 0.43 [0.02] \\ 4.0 & 4.6 \pm 0.3 [0.161 \pm 0.012] & 1.75 [0.069] & 0.25 [0.010] & 0.43 [0.02] \\ 5.0 & 5.6 \pm 0.3 [0.221 \pm 0.012] & 2.00 [0.079] & 0.25 [0.010] & 0.43 [0.02] \\ 6.0 & 6.6 \pm 0.3 [0.221 \pm 0.012] & 2.50 [0.098] & 0.30 [0.012] & 0.56 [0.02] \\ 7.0 & 7.6 \pm 0.3 [0.260 \pm 0.012] & 3.00 [0.118] & 0.30 [0.012] & 0.56 [0.02] \\ 8.0 & 8.6 \pm 0.3 [0.339 \pm 0.012] & 4.00 [0.158] & 0.30 [0.012] & 0.56 [0.02] \\ 9.0 & 9.6 \pm 0.3 [0.378 \pm 0.012] & 4.50 [0.177] & 0.30 [0.012] & 0.56 [0.02] \\ 11.0 & 11.4 \pm 0.3 [0.449 \pm 0.012] & 5.50 [0.217] & 0.30 [0.012] & 0.56 [0.02] \\ 12.0 & 12.7 \pm 0.3 [0.500 \pm 0.012] & 6.50 [0.256] & 0.35 [0.014] & 0.66 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.02] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016]$	13]	
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$\begin{array}{c} 3.5 & 4.1 \pm 0.3 [0.161 \pm 0.012] & 1.75 [0.069] & 0.25 [0.010] & 0.43 [0.012] \\ 4.0 & 4.6 \pm 0.3 [0.181 \pm 0.012] & 2.00 [0.079] & 0.25 [0.010] & 0.43 [0.012] \\ 5.0 & 5.6 \pm 0.3 [0.221 \pm 0.012] & 2.50 [0.098] & 0.30 [0.012] & 0.56 [0.012] \\ 6.0 & 6.6 \pm 0.3 [0.260 \pm 0.012] & 3.00 [0.118] & 0.30 [0.012] & 0.56 [0.012] \\ 7.0 & 7.6 \pm 0.3 [0.299 \pm 0.012] & 3.50 [0.138] & 0.30 [0.012] & 0.56 [0.012] \\ 8.0 & 8.6 \pm 0.3 [0.339 \pm 0.012] & 4.00 [0.158] & 0.30 [0.012] & 0.56 [0.012] \\ 9.0 & 9.6 \pm 0.3 [0.378 \pm 0.012] & 4.50 [0.177] & 0.30 [0.012] & 0.56 [0.012] \\ 10.0 & 10.4 \pm 0.3 [0.409 \pm 0.012] & 5.00 [0.197] & 0.30 [0.012] & 0.56 [0.012] \\ 11.0 & 11.4 \pm 0.3 [0.449 \pm 0.012] & 5.50 [0.217] & 0.30 [0.012] & 0.56 [0.012] \\ 12.0 & 12.7 \pm 0.3 [0.500 \pm 0.012] & 6.00 [0.236] & 0.30 [0.012] & 0.56 [0.012] \\ 13.0 & 13.5 \pm 0.3 [0.532 \pm 0.012] & 6.50 [0.256] & 0.35 [0.014] & 0.66 [0.012] \\ 14.0 & 14.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 & 10.4 \pm 0.4 [0.567 \pm 0.016] & 7.00 [0.276] & 0.35 [0.014] & 0.68 [0.012] \\ 10.0 &$	17]	
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14.0 14.4 ± 0.4 [0.567 ± 0.016] 7.00 [0.276] 0.35 [0.014] 0.68 [0.0	22]	
	26]	
15.0 15.7 ± 0.4 [0.618 ± 0.016] 7.50 [0.295] 0.35 [0.014] 0.68 [0.0	27]	
	27]	
16.0 $16.9 \pm 0.4 [0.665 \pm 0.016]$ $8.00 [0.315]$ $0.35 [0.014]$ $0.68 [0.016]$	27]	
18.0 19.0 ± 0.4 [0.748 ± 0.016] 9.00 [0.354] 0.40 [0.016] 0.76 [0.0	30]	
20.0 21.4 ± 0.4 [0.843 ± 0.016] 10.00 [0.394] 0.40 [0.016] 0.76 [0.0	30]	
22.0 23.2 ± 0.4 [0.913 ± 0.016] 11.00 [0.433] 0.45 [0.018] 0.89 [0.0	35]	
25.0 26.8 ± 0.4 [1.055 ± 0.016] 12.50 [0.452] 0.45 [0.018] 0.89 [0.0	35]	
27.0 28.2 ± 0.5 [1.110 ± 0.020] 12.50 [0.452] 0.45 [0.018] 0.89 [0.0	35]	
28.0 30.0 ± 0.5 [1.181 ± 0.020] 14.00 [0.551] 0.45 [0.018] 0.89 [0.0	35]	
30.0 32.1 ± 0.5 [1.264 ± 0.020] 15.00 [0.591] 0.45 [0.018] 0.89 [0.0	35]	

^{*}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).	