

PHZ Heat shrink tube

- Flexible zero-halogen thin-wall polyolefin heat shrink tubing with ideal printability
- Excellent fire safety characteristics – low smoke, toxic and corrosive gas generation
- Available in 2:1 and 3:1 shrink ratios; reduced assembly and marking costs when printed on-site with Partex printers
- Suitable for maritime, offshore, underground railway and other enclosed environments where toxic emissions must be minimised



BENEFITS

PHZ is a thin-wall, flexible, zero-halogen (ZEROHAL) polyolefin heat shrink tubing with excellent fire safety characteristics. It combines low smoke emissions and very low evolution of toxic and corrosive gases with good mechanical and solvent-resistant properties.

Primary applications include insulation and protection of cables, harnesses and electronic components used in enclosed spaces where toxic emissions must be minimised in case of fire. The product is especially suitable for maritime, offshore, underground railway and mass-transportation applications requiring EN 45545-2 HL3.

PHZ is available in two shrink ratios: 2:1 (PHZ2) and 3:1 (PHZ3). Both versions are halogen-free and meet EN 45545-2 Hazard Level HL3. The tubing has ideal printability for on-site production with Partex printers (Promark, MK10 family, SP series) and Promark Creator software.

Customised pre-printed markers can also be ordered from Partex.

TECHNICAL INFORMATION

Material

Flexible halogen-free polyolefin (cross-linked). PHZ2 and PHZ3 are completely zero-halogen (ZEROHAL).

Shrink ratio

PHZ2: 2:1 and PHZ3: 3:1

Temperature range

Continuous operating temperature range of -55°C to $+105^{\circ}\text{C}$.
Shrink temperature $> 90^{\circ}\text{C}$

Storage conditions

Temperature: $23^{\circ} \pm 2^{\circ}\text{C}$
Humidity: 50% $\pm 5\%$ RH

Approvals to standards

PHZ2: 2:1

EN 45545-2 (R22 / R23 / R24) – HL1, HL2 i HL3 • BS 7239 • BS 6853 (1999) vehicle category Ia • LUL 1-085: A3 compliant • ASTM D 635-HB • REACH and RoHS

PHZ3: 3:1

EN 45545-2 (R22 / R23 / R24) – HL1, HL2 i HL3 • BS 7239 (toxic gas generation) • MIL-STD-202 method 215 • SAE AS 5942 • EN 60684-2 (dimensional, physical, thermal, electrical, chemical) • REACH and RoHS

Colours

Standard: Black, yellow, white.
Non-standard colours are available on request.

Printing

Printable for on-site production with Promark T-2000 / Promark series (sizes from 2.4mm to 6.4mm) and SP8600 printers.
Use software Promark Creator for design and production management. Use printer software for SP printers.

Customised markers can also be ordered directly from Partex.





2:1 PRODUCT SIZE AND PACKAGING

Article	ØD, before shrinking [mm]	ød, after shrinking [mm]	Ø, before shrinking [inch]	ød, after shrinking [inch]	WT Recovered wall thickness		PHZ reel [m]
					[mm]	[inch]	
PHZ20024DN/BN*	2.40	1.20	0.094	0.047	0.51	0.020	25 / 150
PHZ20032DN/BN*	3.20	1.60	0.125	0.063	0.51	0.020	25 / 150
PHZ20048DN/BN*	4.80	2.40	0.189	0.095	0.51	0.020	25 / 150
PHZ20064DN/BN*	6.40	3.20	0.252	0.126	0.65	0.026	25 / 150
PHZ20095DN/BN*	9.50	4.70	0.374	0.185	0.65	0.026	20 / 150
PHZ20127DN/BN*	12.70	6.40	0.500	0.251	0.65	0.026	15 / 150
PHZ20191DN/BN*	19.10	9.50	0.752	0.375	0.77	0.030	15 / 50
PHZ20254BN*	25.40	12.70	1.000	0.500	0.89	0.035	50
PHZ20381BN*	38.10	19.10	1.500	0.750	1.00	0.039	25

*Colour codes: 0 = Black, 4 = Yellow, 9 = White. Other colours on request.

3:1 PRODUCT SIZE AND PACKAGING

Article	ØD, before shrinking [mm]	ød, after shrinking [mm]	Ø, before shrinking [inch]	ød, after shrinking [inch]	WT Recovered wall thickness		PHZ reel [m]
					[mm]	[inch]	
PHZ30024DN/BN*	2.40	0.8	0.094	0.031	0.43-0.63	0.017-0.025	25 / 150
PHZ30032DN/BN*	3.20	1.2	0.126	0.047	0.43-0.68	0.017-0.027	25 / 150
PHZ30048DN/BN*	4.80	1.6	0.189	0.063	0.43-0.68	0.017-0.027	25 / 150
PHZ30064DN/BN*	6.40	2.4	0.252	0.094	0.56-0.71	0.022-0.028	25 / 150
PHZ30095DN/BN*	9.50	3.2	0.374	0.126	0.56-0.71	0.022-0.028	20 / 150
PHZ30127DN/BN*	12.70	4.7	0.500	0.185	0.56-0.80	0.022-0.031	15 / 150
PHZ30191DN/BN*	19.10	6.4	0.752	0.252	0.80-1.00	0.031-0.039	15 / 50
PHZ30254BN*	25.40	8.5	1.000	0.335	0.81-1.15	0.032-0.045	50
PHZ30381BN*	38.10	13.5	1.500	0.531	0.90-1.25	0.035-0.049	25

*Colour codes: 0 = Black, 4 = Yellow, 9 = White. Other colours on request.

RELATED PRODUCTS



Promark printers



SP printers

