

PHZF Heat shrink tube

- Halogen-free flat flexible thin-wall polyolefin heat shrink tubing with ideal printability
- Available with shrink ratios 2:1 and 3:1
- Excellent chemical, physical and electrical properties
- Zero-halogen versions offer excellent fire safety – low smoke, toxic and corrosive gas generation
- Optimised for thermal-transfer printing on Partex MK10 family, Promark and SP printers; reduced on-site assembly and marking costs



BENEFITS

PHZF is a flat, flexible, thin-wall polyolefin heat shrink tubing designed for excellent printability. The flat format is optimised for thermal-transfer printing on Partex desktop and industrial printers.

PHZF2 (2:1) is a zero-halogen product with excellent fire safety characteristics, low smoke emissions and low evolution of toxic and corrosive gases. It is especially suitable for maritime, offshore, underground railway and mass-transportation applications requiring EN 45545-2 HL3.

PHZF3 (3:1) is the new halogen-free generation material. It achieves EN 45545-2 Hazard Level HL3 (R22/R23/R24) and offers the same operating temperature range of -55 °C to +105 °C. The combination of 3:1 shrink ratio, continuous flattened format and full HL3 compliance fills a clear market need for high fire-safety marking systems.

Both ratios are printable with Promark, MK10 family (EOS2, EOS5, SQUIX, DH) and SP8600 printers using Promark Creator software. Customised pre-printed markers can also be ordered from Partex.

TECHNICAL INFORMATION

Material

PHZF2 (2:1): Flexible halogen-free polyolefin

PHZF3 (3:1): Flexible halogen-free cross-linked polyolefin with high mechanical strength and chemical resistant

Shrink ratio

PHZF2 2:1 and PHZF3 3:1

Temperature range

Both PHZF2 and PHZF3:

Continuous operation temperature range -55° to +105°C

Shrink temperature > 90°C

Storage conditions

Temperature: 23° ± 2°C

Humidity: 50% ± 5% RH

Approvals to standards

PHZF2: 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

PHZF3: 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 available on request.

Printing

Printable for on-site production with Promark T-2000 / Promark series, MK10 family (EOS2, EOS5, SQUIX, DH) 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]	ØD, before shrinking [inch]	ød, after shrinking [inch]	WT Recovered wall thickness		PHZF reel [m]
					[mm]	[inch]	
PHZF20024DN/BN*	2.40	1.20	0.094	0.047	0.51	0.020	25 / 100
PHZF20032DN/BN*	3.20	1.60	0.125	0.063	0.51	0.020	25 / 100
PHZF20048DN/BN*	4.80	2.40	0.189	0.095	0.51	0.020	25 / 100
PHZF20064DN/BN*	6.40	3.20	0.252	0.126	0.65	0.026	25 / 100
PHZF20095DN/BN*	9.50	4.70	0.374	0.185	0.65	0.026	20 / 100
PHZF20127DN/BN*	12.70	6.40	0.500	0.251	0.65	0.026	15 / 100
PHZF20191DN/BN*	19.10	9.50	0.752	0.375	0.77	0.030	15 / 50
PHZF20254DN/BN*	25.40	12.70	1.000	0.500	0.89	0.035	15 / 50
PHZF20381DN/BN*	38.10	19.10	1.500	0.750	1.00	0.039	10 / 25
PHZF20510DN/BN*	50.8	25.4	2.000	1.000	1.00	0.039	10 / 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]	ØD, before shrinking [inch]	ød, after shrinking [inch]	WT Recovered wall thickness		PHZF reel [m]
					[mm]	[inch]	
PHZF30024DN/BN*	2.40	0.80	0.094	0.031	0.43-0.63	0.017-0.025	25 / 100
PHZF30032DN/BN*	3.20	1.20	0.125	0.047	0.43-0.68	0.017-0.027	25 / 100
PHZF30048DN/BN*	4.80	1.60	0.189	0.063	0.43-0.68	0.017-0.027	25 / 100
PHZF30064DN/BN*	6.40	2.40	0.252	0.094	0.56-0.71	0.022-0.028	25 / 100
PHZF30095DN/BN*	9.50	3.20	0.374	0.126	0.56-0.71	0.022-0.028	20 / 100
PHZF30127DN/BN*	12.70	4.70	0.500	0.185	0.56-0.80	0.022-0.031	15 / 100
PHZF30191DN/BN*	19.10	6.40	0.752	0.252	0.80-1.00	0.031-0.039	15 / 50
PHZF30254DN/BN*	25.40	8.50	1.000	0.335	0.81-1.15	0.032-0.045	15 / 50
PHZF30381DN/BN*	38.10	13.50	1.500	0.531	0.90-1.25	0.035-0.049	10 / 25

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

RELATED PRODUCTS



Promark printers



MK10 printers



SP printers

