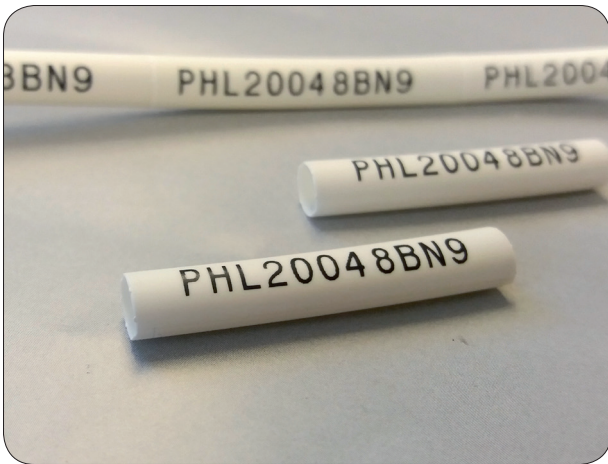


PHL

HEAT SHRINK TUBING

- Zero halogen polyolefin tubing for insulation and marking.
- Flexible and fast mounting in most industrial application where zero halogen is a requirement.
- Shrink ratio 2:1.
- Reduced marking costs as marking can be done on site with Partex marking machines.

GENERAL INFORMATION

Design

PHL is a flame retardent crosslinked polyolefin tubing and used in most standard applications.

Primary applications include marking, insulation and protection of cables, harnesses and electronic components

PHL is delivered in round / oval shape depending on size. Its flexibility enabels fast mounting.

Marking equipment

PHL is printable for on site production with Partex MK10 or T1000 marking machines. See separate product information.

Best suited in dry environments, where labeling does not come in contact with liquids.

FACTS

Material

Flame retardent crosslinked polyolefin

Temperature range

Working temperature: -55°C to +125°C

Shrink temperature: 90°C

Shrink ratio 2:1

Voltage

600 V

Approved

UL224

Colours

Black, yellow, white, brown, red, green, grey, blue, transparent and earth (yellow/green).

Packaging

BN reel or mini-box

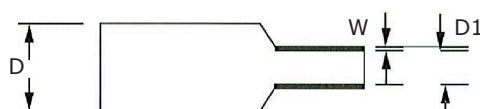
PHL DIMENSIONS (NOMINAL)

Round heat shrink tube 1.2 - 6.4 mm diameter. Oval/flat heat shrink tube 9.5 - 101.6 mm diameter.

Article number	Inside diameter (mm) before shrinking (D)	Inside diameter (mm) after shrinking (D1)	Wall thickness (mm) after shrinking (W)	Packaging BN reel (m)	Packaging Mini-box (m)
PHL20012*Nκ	1.20	0.60	0.40 ± 0.08	150	20
PHL20016*Nκ	1.60	0.80	0.40 ± 0.08	150	17
PHL20024*Nκ	2.40	1.20	0.42 ± 0.08	150	15
PHL20032*Nκ	3.20	1.60	0.48 ± 0.10	150	15
PHL20048*Nκ	4.80	2.40	0.54 ± 0.10	75	12
PHL20064*Nκ	6.40	3.20	0.50 ± 0.10	75	12
PHL20095*Nκ	9.50	4.70	0.72 ± 0.12	75	8
PHL20127*Nκ	12.70	6.40	0.72 ± 0.12	50	8
PHL20190*Nκ	19.10	9.50	0.80 ± 0.15	50	5
PHL20254*Nκ	25.40	12.70	0.90 ± 0.15	30	5
PHL20381*Nκ	38.10	19.00	1.10 ± 0.15	30	-
PHL20508*Nκ	50.80	25.40	1.10 ± 0.15	30	-
PHL20762*Nκ	56.20	38.10	1.25 ± 0.20	15	-
PHL21016*Nκ	101.6	50.8	1.25 ± 0.20	15	-

*= B=Roll, M=Mini-box

κ=0=black, 4=yellow, 9=white. Other colours on request.



PROPERTIES

Property	Data	Condition
Tensile Strength	≥ 10.4 MPa	
Tensile Strength After Aging	≥ 7,3 MPa	158°C ± 1.0°C, 168 h
Elongation	≥ 200%	
Elongation After Aging	≥ 100%	134°C 60 days
Longitudinal Change	≤ 5%	
Radial Shrinking Ratio	≥ 50%	
Flammability	VW-1	
Dielectric Strength	≥ 15 kV/mm	
Volume Resistivity	10 ¹² Ω ·cm	
Corrosion	No corrosion	
Concentricity	≥ 65%	

MARKING ON SITE



MK10

Printer for high volume on site marking production. See separate product information.



T1000

Printer for low or medium volume on site marking production. See separate product information.