

Printashrink LSZH (FLAT)

Printashrink LSZH (FLAT) is a flattened 2:1 shrink ratio zero halogen, flame retardant, low smoke and toxicity heatshrink polyolefin. It has excellent printability qualities and is ideal for identification in fire safety, marine, mass transit and off-shore applications. It is available in several colours and sizes up to 50.8mm and can be [cut](#) and [printed](#) as required.

This continuous 2:1 zero halogen, fire retardant, low smoke and fume heatshrink polyolefin tube is supplied flat making it compatible with most printers. It is a UL/CSA approved sleeve which offers excellent fire safety characteristics and as such is ideal for marine, mass transit, and off-shore applications. It is available on bulk and smaller reels to suit any print set up and has been developed with thermal transfer printing in mind. We offer our full range of printing and cutting services on this high quality sleeve making it perfect for identification, branding and marking requirements.

Technical Data

- **Shrink Ratio:** 2:1
- **Operating Temperature** -30°C – +105°C
- **Flame Retardant:** Yes
- **Colours:** Yellow, White, Black, Red, Blue, Green, Orange, Green/Yellow, Other colours available upon request
- **Sizes:** 2.4mm ? 50.8mm
- **Packing:** Reels, mini-reels, mini-packs, cut to length, kits, cut sleeves
- **Print:** Yes, full range of text and logos
- **Approvals:** BS 6853, NF-16 101, CEN TS 45545-2, DIN 5510-2, UNI CEI 11170 cl LR4, NFPA130 (ASTM E 162, ASTM E 662), RoHS compliant
- **Applications / Industries:** General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive, Military-defence, Aerospace, Marine, Mass-transit, Offshore



Properties	Typical Values	Test Methods
General		
Operating Temperature	-30°C – +105°C	
Shrink Ratio	2:1	
Physical		
Tensile Strength	13N/mm ²	ASTM D 638
Ultimate elongation	200%	ASTM D 638
Specific gravity	1.4g/cm ³	ASTM D 792
Longitudinal change	?+5% ?-10%	ASTM D 2671
Water absorption	?0.15%	ASTM D 570
Thermal		
Flammability	Pass	ASTM D 635
Heat shock (4hrs)	@ 175C, no dripping, cracking or flowing	ASTM D 2671
Low temperature flexibility (4hrs @ -55°C)	@ =30C, no cracking	ASTM D 2671C
Heat ageing (168hrs)	Elongation 100%	ASTM D 638
Electrical		
Dielectric strength	20kV/mm ²	ASTM D 2671
Volume resistivity	10 ¹² ??cm	ASTM D 257
Chemical		
Chemical resistance	Good	AMS-DTL-23053/5
Copper corrosion	No corrosion	ASTM D 2671B
Fungus resistance	Inert, no growth	AMS-DTL-7444
Oxygen Index	36%	ASTM D 2863

Size (mm)	Supplied diameter (mm)	Shrunk diameter (mm)	Nominal wall thickness (mm)
2.4	2.4	1.2	0.43
3.2	3.2	1.6	0.55
4.8	4.8	2.4	0.55
6.4	6.4	3.2	0.65
9.5	9.5	4.8	0.65
12.7	12.7	6.4	0.65
19.1	19.1	9.5	0.65
25.4	25.4	12.7	0.70
38.1	38.1	19.1	0.85
50.8	50.8	25.4	0.90

Printasleeve Ltd is as diligent as possible in compiling and updating the above information. It reflects averages derived from product sample testing, is subject to normal manufacturing and testing tolerances and may be changed without notice. Furthermore aesthetic and textural style differences can result in local variation. For specific or further information concerning our products, their specifications and their utilisation please contact us. E & OE

