



# PRINTASLEEVE

## Printashrink LSZH-L

**Printashrink LSZH-L is a flattened 2:1 zero halogen, flame retardant, low smoke and toxicity heatshrink polyolefin ideal for fire safety, marine, mass transit and off-shore applications. It is supplied as printable labels organised on ladder-style carriers and is available in a range of colours and sizes up to 50.8mm and can be printed as required.**

This flattened 2:1 zero halogen, fire retardant, low smoke and fume heatshrink polyolefin tube is supplied on different sized and structured ladder-style carriers 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:** 2.4 x 13, 19, 25, 38, 50mm → 50.8 x 13, 19, 25, 38, 50mm
- **Packing:** Rolls, mini-packs
- **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                                    |  |                 |
| Shrink Ratio                               | 2:1                                      |                 |
| Physical                                   |  |                 |
| Tensile Strength                           | 13N/mm <sup>2</sup>                      | ASTM D 638      |
| Ultimate elongation                        | 200%                                     | ASTM D 638      |
| Specific gravity                           | 1.4g/cm <sup>3</sup>                     | 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 <sup>2</sup>                     | ASTM D 2671     |
| Volume resistivity                         | 10 <sup>14</sup> Ωcm                     | 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 x 13, 19, 25, 38, 50  | 2.4                    | 1.2                  | 0.43                        |
| 3.2 x 13, 19, 25, 38, 50  | 3.2                    | 1.6                  | 0.55                        |
| 4.8 x 13, 19, 25, 38, 50  | 4.8                    | 2.4                  | 0.55                        |
| 6.4 x 13, 19, 25, 38, 50  | 6.4                    | 3.2                  | 0.65                        |
| 9.5 x 13, 19, 25, 38, 50  | 9.5                    | 4.8                  | 0.65                        |
| 12.7 x 13, 19, 25, 38, 50 | 12.7                   | 6.4                  | 0.65                        |
| 19.1 x 13, 19, 25, 38, 50 | 19.1                   | 9.5                  | 0.65                        |
| 25.4 x 13, 19, 25, 38, 50 | 25.4                   | 12.7                 | 0.70                        |
| 38.1 x 13, 19, 25, 38, 50 | 38.1                   | 19.1                 | 0.85                        |
| 50.8 x 13, 19, 25, 38, 50 | 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 utilization please contact us. E & OE

