

Printashrink SPF-L

Printashrink SPF-L is a flattened 135°C, UL approved, 2:1 shrink ratio heatshrink polyolefin. It is in the form of printable labels organised on ladder-style carriers which meet MIL-SPEC requirements. They are fire retardant and available in a range of colours and sizes up to 50.8mm ID and can be printed as required.

This flattened 2:1 heatshrink polyolefin tube can be supplied on a number of differently sized and structured ladder-style carriers making it compatible with most printers. It is a UL/CSA approved sleeve which meets MIL-SPEC requirements, has a 135°C working temperature and excellent electrical, chemical and physical properties. These attributes make it perfect for aerospace, military, defence, and many other professional applications. Its surface and profile are designed for thermal transfer printing and it is available in varying sleeve lengths to suit any print requirement and set up. We can supply unprinted or pre-printed as required.

Technical Data

- Shrink Ratio: 2:1

- Shrink Temperature" +85°C

- Operating Temperature -40°C - +135°C

- Flame Retardant: Yes

- Colours: Yellow, White, 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

- **Approvals:** MIL-STD-202F method 215J, UL224 125C 600V VW-1, CSA 25C 600V VW-1, SAE-AMS-DTL-23053/5 class 1&3 (mark performance: SAE AS81531:1998 point 4.6.2) RoHS Compliant



Properties	Typical Values	Test Methods		
General				
Operating Temperature	-40°C – + 135°C			
Minimum shrink temperature	85°C			
Shrink Ratio	2:1			
Physical				
Tensile Strength	?14MPa	ASTM D 638		
Ultimate elongation	? 400%	ASTM D 638		
Specific gravity	1.34g/cm ³	ASTM D 792		
Longitudinal change	0% – -2%	SAE-AMS-DTL-23053		
Secant Modulus	65MPa	ASTM D 882		
Thermal	-	•		
Flammability	VW-1 pass	UL224		
Heat shock (4hrs)	No dripping, cracking or flowing	SAE-AMS-DTL-23053		
Low temperature flexibility (4hrs @ -55°C)	No cracking	SAE-AMS-DTL-23053		
Heat ageing (168hrs)	Elongation ? 400%	SAE-AMS-DTL-23053		
Electrical				
Dielectric strength	? 37 kV/mm	UL 224		
Volume resistivity	3.1 x 10 ¹ ? ? cm	ASTM D 876		
Voltage rating	600V	UL 224		
Dielectric Voltage	withstands 2.5kV for 60s	UL 224		
Chemical				
Copper corrosion	Pass	SAE-AMS-DTL-23053		
Copper stability	Pass	SAE-AMS-DTL-23053		
Fluid resistance	Gasoline, hydraulic fluid, lubricating oil, tensile 25-14MPa	SAE-AMS-DTL-23053		
Fungus resistance	Pass, no growth	ASTM G 21		

Size (mm)	Supplied diameter (mm)	Shrunk diameter (mm)	Nominal wall thickness (mm)
2.4 x 13, 19, 25, 38, 50	2.4	1.2	0.57
3.2 x 13, 19, 25, 38, 50	3.2	1.6	0.61
4.8 x 13, 19, 25, 38, 50	4.8	2.4	0.67
6.4 x 13, 19, 25, 38, 50	6.4	3.2	0.71
9.5 x 13, 19, 25, 38, 50	9.5	4.8	0.77
12.7 x 13, 19, 25, 38, 50	12.7	6.4	0.80
19.1 x 13, 19, 25, 38, 50	19.1	9.5	0.84
25.4 x 13, 19, 25, 38, 50	25.4	12.7	0.86
38.1 x 13, 19, 25, 38, 50	38.1	19.0	0.89
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 utiliation please contact us. E & OE