

# LSF

Flame retardant, multi-purpose heat shrink polyolefin tubing



## Features and Application

Flexible

Flame retardant, UL224 VW-1,

Suitable for various applications

Operating temperature: -55°C to 135°C

Shrink temperature:  $\geq 120^{\circ}\text{C}$

RoHS compliant

Meet SAE AMS DTL-23053/5 Class 1 and 3

UL E361238

## Dimensions 2:1 (2X)

SIZE		AS SUP- PLIED	AFTER RECOVERY		STANDARD PACKAGE
Inch	mm	INTERNAL DIAMETER mm(min)	INTERNAL DIAMETER MAX mm(max)	WALL THICK- NESS NOM mm(nom)	SPOOL LENGTH m/spool
3/64	1,2	$\geq 1,2$	$\leq 0,6$	0,41 $\pm$ 0,1	200
1/16	1,6	$\geq 1,6$	$\leq 0,8$	0,41 $\pm$ 0,1	200
3/32	2,4	$\geq 2,4$	$\leq 1,2$	0,51 $\pm$ 0,1	200
1/8	3,2	$\geq 3,2$	$\leq 1,6$	0,51 $\pm$ 0,1	200
3/16	4,8	$\geq 4,8$	$\leq 2,4$	0,51 $\pm$ 0,1	100
1/4	6,4	$\geq 6,4$	$\leq 3,2$	0,64 $\pm$ 0,1	100
3/8	9,5	$\geq 9,5$	$\leq 4,8$	0,64 $\pm$ 0,1	100
1/2	12,7	$\geq 12,7$	$\leq 6,4$	0,64 $\pm$ 0,1	100
5/8	16,0	$\geq 16,0$	$\leq 8,0$	0,76 $\pm$ 0,15	100
3/4	19,1	$\geq 19,1$	$\leq 9,5$	0,76 $\pm$ 0,15	100
1	25,4	$\geq 25,4$	$\leq 12,7$	0,89 $\pm$ 0,15	50
1-1/4	31,8	$\geq 31,8$	$\leq 15,9$	0,89 $\pm$ 0,15	50
1-1/2	38,1	$\geq 38,1$	$\leq 19,0$	1,00 $\pm$ 0,15	50
2	50,8	$\geq 50,8$	$\leq 25,4$	1,15 $\pm$ 0,15	25
3	76,2	$\geq 76,2$	$\leq 38,0$	1,27 $\pm$ 0,20	25
4	101,6	$\geq 101,6$	$\leq 50,8$	1,40 $\pm$ 0,20	25

other diameters upon request

## Dimensions 3:1 (3X)

SIZE		AS SUP- PLIED	AFTER RECOVERY		STANDARD PACK- AGE
Inch	mm	INTERNAL DIAMETER mm(min)	INTERNAL DIAMETER mm(max)	WALL THICK- NESS mm(nom)	SPOOL LENGTH m/spool
1/16	1,6	$\geq 1,6$	$\leq 0,5$	0,45 $\pm$ 0,10	200
1/8	3,2	$\geq 3,2$	$\leq 1,0$	0,55 $\pm$ 0,10	200
3/16	4,8	$\geq 4,8$	$\leq 1,5$	0,60 $\pm$ 0,10	100
1/4	6,4	$\geq 6,4$	$\leq 2,0$	0,65 $\pm$ 0,10	100
3/8	9,5	$\geq 9,5$	$\leq 3,0$	0,75 $\pm$ 0,15	100
1/2	12,7	$\geq 12,7$	$\leq 4,0$	0,75 $\pm$ 0,15	100
5/8	16,0	$\geq 16,0$	$\leq 5,0$	0,80 $\pm$ 0,15	100
3/4	19,1	$\geq 19,1$	$\leq 6,0$	0,85 $\pm$ 0,15	100
1	25,4	$\geq 25,4$	$\leq 8,0$	1,00 $\pm$ 0,20	50
1-1/4	31,8	$\geq 31,8$	$\leq 10,0$	1,15 $\pm$ 0,20	50
1-1/2	38,1	$\geq 38,1$	$\leq 13,0$	1,50 $\pm$ 0,20	50
2	50,8	$\geq 50,8$	$\leq 16,0$	2,50 $\pm$ 0,20	25
3	76,2	$\geq 76,2$	$\leq 25,0$	2,60 $\pm$ 0,20	25
4	101,2	$\geq 101,2$	$\leq 33,0$	2,60 $\pm$ 0,20	25

## TECHNICAL DATA SHEET












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This information and data is believed to be accurate and reliable. Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of this date, Link Solutions makes no representations as to the completeness or accuracy thereof. We place at your disposal the technical information necessary for the correct use of our products. As conditions and methods of use are beyond our control, that the person receiving the same will make their own determination as to the suitability for their purpose. We reserve the right to modify characteristics with the aim of improving the product and adapting it to the requirements of the market.

## Technical Data

Property	Test Method	Standard Performance
Tensile strength (MPa)	ASTM D 638	≥10,4
Ultimate elongation (%)	ASTM D 638	≥200
Tensile strength after heat aged (MPa)	175°C×168h	≥7.3
Ultimate elongation after heat aged (%)	175°C×168h	≥100
Longitudinal change (%)	ASTM D 2671	-5% ~ %5+
Flammability	UL224	VW-1
Voltage withstand	UL 224, 2500V, 60s	No breakdown
Heat shock	UL 224, 250°C×4h	No cracks, flowing or dripping
Dielectric strength (kV/mm)	ASTM D 149	≥15
Volume resistivity (Ω·cm)	ASTM D 876	≥10 <sup>14</sup>

Black (BK)	Clear* (CL)	White (WH)	Red (RD)	Yellow (YE)	Green (GN)	Blue (BU)	Grey (GY)	Brown (BN)	Orange (OG)	Violet (VT)	Green/Yellow (GNYE)
											

\*clear colour not flame