

# Flexible, Flame Retardant General Purpose Polyolefin Heat Shrink Tubing

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**RoHS  
Compliant**



## Description

This specification covers the requirements for one type of halogen free, thin wall, flexible, flame retardant heat shrinkable tubing whose diameter will reduce to a predetermined size upon the application of heat in excess of 70°C.

This is halogen free and free of any halogenated compounds including polybrominated biphenyls (PBB) and polybrominated biphenyl oxides (PBBO) and meet the requirement of Latest RoHS directive.

## Features

- Operating temp: -55°C to +125°C
- UV resistant
- Halogen free
- Min. full recovery temp: 100°C
- Voltage rating: 600V
- Flame retardant: VW-1
- Shrink ratio: 2:1
- Approvals: UL 224 E204071 (Black)

## Applications

Except the common fine physical and chemical specifications, the tube also shows excellent flame-retardant, insulation, low temperature shrinking and flexible properties and thus be widely used in electronics, communication and automotive applications.

## Shelf life and Storage

This Heat Shrink Product has over 5 year's shelf life from date of manufacture when stored in a humidity-controlled storage (-10°C to +40°C and <75% relative humidity).

## Specification Values

Property	Required Value	Test Value
<b>Shrinking Properties</b>		
Longitudinal Changes	-5% to 5%	-3% to 3%
Eccentricity	10 to 30% (the size D <50mm)	15% to 25%
	<40% (the size D ≥50mm)	35%
<b>Physical Properties</b>		
Tensile Strength	Min. 10.4MPa	Min. 12.2MPa
Ultimate Elongation	Min 200%	Min 300%
Thermal Aging (158°C / 168 hrs)		
Tensile Strength	Remain 70%	Min. 8 MPa
Ultimate Elongation	Min. 100%	Min. 150%

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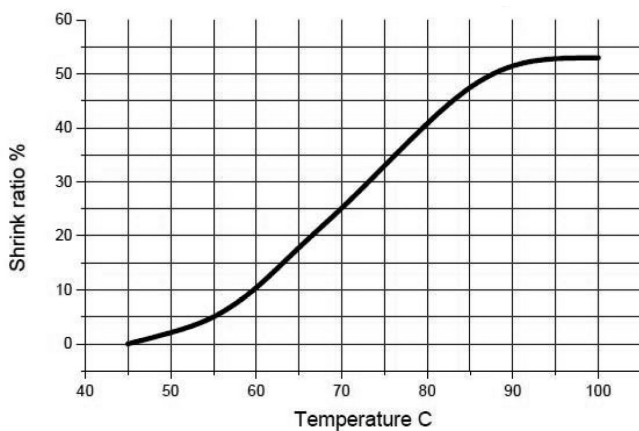
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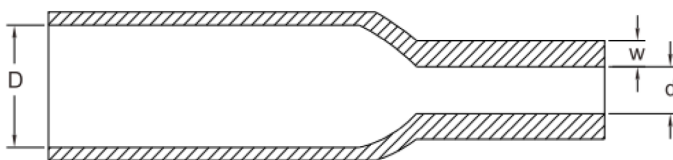


Property	Required Value	Test Value
<b>Electrical Properties</b>		
Dielectric Strength	Min. 19.7	20
Volume Resistivity	Min. $10^{14}$	$1 \times 10^{14}$
<b>Chemical Properties</b>		
Copper corrosion	No corrosion	No corrosion
Flammability VW-1	Pass	Pass

## Shrinking Curve



## Dimensions



D = Inner diameter as supplied  
d = Inner diameter after fully recovered  
w = Wall thickness after fully recovered

## Specification Table

As supplied (mm)	After recovered (mm)		Length (m)	Part Number
	D (Min.)	d (Max.)		
1.2	0.6	0.33	1.2	SPUL/1.2/1.2MMBLK
1.6	0.8	0.36		SPUL/1.2/1.6MMBLK
2.4	1.2	0.42		SPUL/1.2/2.4MMBLK
3.2	1.6	0.42		SPUL/1.2/3.2MMBLK
4.8	2.4	0.51		SPUL/1.2/4.8MMBLK
6.4	3.2	0.54		SPUL/1.2/6.4MMBLK
9.5	4.8	0.54		SPUL/1.2/9.5MMBLK
12.7	6.4	0.62		SPUL/1.2/12.7MMBLK

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As supplied (mm)	After recovered (mm)		Length (m)	Part Number
D (Min.)	d (Max.)	w (Min.)		
19.1	9.5	0.75	1.2	SPUL/1.2/19MMBLK
25.4	12.7	0.85		SPUL/1.2/25.4MMBLK
1.2	0.6	0.33	5	SPUL5M/1.2MMBLK
1.6	0.8	0.36		SPUL5M/1.6MMBLK
2.4	1.2	0.42		SPUL5M/2.4MMBLK
3.2	1.6	0.42		SPUL5M/3.2MMBLK
4.8	2.4	0.51		SPUL5M/4.8MMBLK
6.4	3.2	0.54		SPUL5M/6.4MMBLK
9.5	4.8	0.54		SPUL5M/9.5MMBLK
12.7	6.4	0.62		SPUL5M/12.7MMBLK
19.1	9.5	0.75		SPUL5M/19MMBLK

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