

PHS Series Heat Shrink

Tubing Flexible, Adhesive-Lined

pro-POWER

RoHS
Compliant



Description:

The PHS series is a flexible, adhesive-lined, flame retardant, thin wall polyolefin with an integral internal layer of special thermoplastic adhesive that bonds with a wide variety of rubber, plastics and metals, forming a permanent, non-drying, flexible and water proof barrier.

Specifications:

Shrink Ratio : 3 : 1
Shrink Temp : 121°C (259°F)
Operating Temp : -55°C to +110°C (-67°F to +230°F)
Flammability : Self-extinguishing, meets UL224 All-Tubing Flame Test (jacket)
Shelf Life : PHS series Heat Shrink Tubing has a 10-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

Dimensions				Standard Packages (Colour: Black)					
Size	Expanded I.D. (Min.)	Recovered I.D. (Max.)	Recovered Nominal Wall Thickness	4 Foot Lengths (+1", -0")			6 Inch Lengths (± .125")		
				Part Number	Pcs	Total Footage	Part Number	Pcs	Total Footage
1/8"	0.125"	0.04"	0.04"	NA			PHS-008-6028-BLK	28	14ft
3/16"	0.187"	0.062"	0.04"	PHS-012-4025-BLK	25	100ft	PHS-012-6024-BLK	24	12ft
1/4"	0.25"	0.08"	0.04"	PHS-016-4025-BLK	25	100ft	PHS-016-6020-BLK	20	10ft
3/8"	0.375"	0.12"	0.055"	PHS-024-4025-BLK	25	100ft	PHS-024-6016-BLK	16	8ft
1/2"	0.5"	0.16"	0.07"	PHS-032-4005-BLK	5	20ft	PHS-032-6014-BLK	14	7ft
3/4"	0.75"	0.25"	0.085"	PHS-048-4005-BLK	5	20ft	PHS-048-6012-BLK	12	6ft
1"	1"	0.32"	0.1"	PHS-064-4005-BLK	5	20ft	NA		
1 1/2"	1.5"	0.51"	0.1"	PHS-096-4005-BLK	5	20ft	PHS-096-6005-BLK	5	2.5ft

Dimensions : Inches (mm)

Typical Properties

Physical

Tensile Strength : 2,100 PSI
Ultimate Elongation : 450%
Longitudinal Change : +1% to -15%
Secant Modulus (2%) : 17,000 PSI
*Heat Aging Elongation : 175%
(168 hrs @ 175°C)
*Heat Shock : No dripping, cracking or flowing
(4 hrs @ 225°C)
*Low Temp Flexibility : No cracking
(4 hrs @ -55°C)
**Flexibility : 3

www.element14.com
www.farnell.com
www.newark.com
www.cpc.co.uk

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*Outer wall only

**Flexibility: The material are rated on a scale of 1 to 10. (1 = most flexible and 10 = most rigid)

Electrical

Dielectric Strength : 700V / mil

Volume Resistivity : $10^{14}\Omega\text{-cm}$

Chemical

Corrosive Effect : Non-corrosive

Water Absorption : 0.3%

Fungus Resistance : Non-nutrient

Fluid Resistance : Excellent

Applicable Specifications : MIL-DTL-23053/4 Class 3

Adhesive

Peel Strength, pli

Polyethylene : 30

PVC : 10

Lead : 15

Aluminum : 40

Corrosive Effect : Non-corrosive

The technical information provided consists of typical product data and should not be used for specification purposes.

Unless otherwise noted, all tests are performed at room temperature.

Part Number Table

Description	Part Number
Heat Shrink Tubing	PHS-012-4025-BLK
	PHS-016-4025-BLK
	PHS-024-4025-BLK
	PHS-032-4005-BLK
	PHS-048-4005-BLK
	PHS-064-4005-BLK
	PHS-096-4005-BLK
	PHS-008-6028-BLK
	PHS-012-6024-BLK
	PHS-016-6020-BLK
	PHS-024-6016-BLK
	PHS-032-6014-BLK
	PHS-048-6012-BLK
	PHS-096-6005-BLK

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