



PTFE HW

PTFE HW (Polytetrafluoroethylene) is a non-flammable, heavy-wall sleeving with an exceptionally high operating temperature of -70°C+260°C. It has a very low coefficient of friction, high dielectric strength and is virtually inert to all chemicals. It is available in many colours and AWG, metric and imperial sizes as standard. Bespoke sizes, wall thicknesses and colours are also available.

PTFE hose and convoluted tubing is ideal for enhanced protection of wire, cable, electrical and electronic components for commercial and high performance military and aerospace systems. It is extremely stable at very high temperatures and retains a measure of toughness and strength even at cryogenic temperatures. It is virtually inert to all chemicals resisting most acids. Alkalies and petroleum products. It is virtually unaffected by oxygen, ozone and UV light. It is extremely hydrophobic and has a UL 94 rating of V-O. It also has a very low coefficient of friction and high dielectric strength and excellent mechanical properties.

Properties	Typical Values			
GENERAL				
Operating temperature	-70C	+260°C		
Shelf Life	No special requirements			
PHYSICAL				
Tensile Strength	Longitudinal 33N/mm ² , transverse 31N/mm ²			
Ultimate elongation	Longitudinal 350%, transverse 610%	DIN 53455, ASTM D1457-81		
Water absorption	0.01% max.			
Density	2.15g/cm ³	ASTM D1457-81		
Hardness	D 55	ASTM D2240		
Co-efficient of friction	Extremely low			
UV Resistance	Virtually unaffected by oxygen, ozone, visible or UV light			
THERMAL				
Flammability	Non-flammable	UL 94 VO		
Flammability	320°C – 340°C	DTA		
Flammability	0.25-0.50W/m.K	DIN 52612		
ELECTRICAL				
Dielectric strength	40-80kV/mm (safe figure 40kV/mm)	ASTM D149		
Chemical Resistance Volume resistivity 10 ¹² Ω.cm	Virtually inert to all chemicals, organic solvents do not attack/dissolve			
APPLICATIONS / INDUSTRIES				
General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive, Militaryde-				

TECHNICAL DATA

OPERATING TEMPERATURE

-70°C+260°C

FLAME RETARDANT

Non-flammable

COLOURS

Natural, Brown, Pink, Black, Yellow, Blue, Grey, Orange, Violet, Red, Green, White

SIZES

HW30mm – HW0mm

PACKING

Coils, reels, cut to length, cut sleeves

APPROVALS

RoHS compliant

APPLICATIONS / INDUSTRIES

General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive, Militaryde-

Size (mm)	Supplied diameter (mm)	Nominal wall thickness (mm)
HW30	0.33	0.3
HW28	0.41	0.33
HW26	0.51	0.33
HW24	0.58	0.33
HW22	0.71	0.36
HW20	0.91	0.38
HW19	1.02	0.41
HW18	1.14	0.41
HW17	1.27	0.41
HW16	1.42	0.41
HW15	1.57	0.41
HW14	1.73	0.41
HW13	1.93	0.41
HW12	2.16	0.41
HW11	2.44	0.41

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.

