



## FLEXO® HEAVY WALL 15 MIL HEAVY WALL ABRASION RESISTANT SLEEVING IDEAL FOR MARINE & INDUSTRIAL APPLICATIONS

When your application calls for more protection than our 10 mil products provide, our 15 mil Flexo® Heavy Wall is the ideal solution. Flexo® Heavy Wall is commonly used in industrial and marine applications where extreme abrasion protection is critical. The durability of Flexo® Heavy Wall makes it ideal for protecting hoses and cables that have to withstand constant contact with rough and abrasive surfaces. Flexo® Heavy Wall is the perfect solution for use on chains and cables to protect painted or laminated surfaces from scuffing and wear.

### SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Kgs/100m
				M	L		
3,2mm	HWN0.13BK	1,6mm	4,8mm	38,1m	152,4m	BK	0,40
9,5mm	HWN0.38	4,8mm	19,1mm	30,5m	152,4m	BK, CL, CB	1,22
15,9mm	HWN0.63	7,9mm	22,2mm	22,9m	76,2m	5	1,64
25,4mm	HWN1.00	12,7mm	38,1mm	15,2m	76,2m	BK, CL, CB	2,38
38,1mm	HWN1.50	19,1mm	50,8mm	15,2m	76,2m	BK, CL, CB	3,72
50,8mm	HWN2.00	38,1mm	76,2mm	15,2m	61,0m	BK, CL, CB	5,06
76,2mm	HWN3.00	50,8mm	101,6mm	15,2m	30,5m	BK, CL, CB	6,25
101,6mm	HWN4.00	63,5mm	139,7mm	15,2m	30,5m	BK, CL, CB	6,25

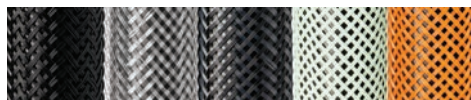
\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



### FEATURES

Material	Polyethylene Terephthalate
Grade	HWN
Monofilament Diameter	0,38mm
Drawing Number	TF001HWN-WD
Cutting	Hot Knife

### COLORS



Black (BK), Clear (CL), Carbon (CB), \*\*Green (GP), \*\*Orange (OR)

\*\* Custom Colors

### CERTIFICATIONS





## ABRASION

Abrasion Resistance	<b>Medium</b>
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	80°F / 27°C
Humidity	72%
Two Broken Strands	200 Test Cycles
Braid Worn Through In One Direction, In Several Places	700 Test Cycles
Material Destroyed - Braid Worn Through In Both Directions	950 Test Cycles
Pre-Test Weight	5 262,7mg
Post-Test Weight	4 979,9mg
Test End Loss Of Mass Point Of Destruction	239,3mg

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	0,38mm
Flammability Rating	UL94
Recommended Cutting	Hot Knife
Colors	5
Wall Thickness	0,97mm
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	10
Specific Gravity (ASTM D-792)	1,38
Moisture Absorption % (ASTM D-570)	0,1 - 0,2%
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	
TML	0,19
CVCM	0,00
WVR	0,16
Smoke D-Max (ASTM E-662)	56
Outgassing	Med
Oxygen Index (ASTM D-2863)	21

## FLAMMABILITY

Rating	UL94V0
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## OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	482°F / 250°C
Maximum Continuous (Mil-I-23053)	257°F / 125°C
Minimum Continuous (Mil-I-23053)	-94°F / -70°C

## CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Aromatic Solvents	2
Aliphatic Solvents	1
Chlorinated Solvents	3
Weak Bases	1
Salts	1
Strong Bases	2
Salt Water (O-S-1926)	1
Hydraulic Fluid (MIL-H-5606)	1
Lube Oil (MIL-L-7808)	1
De-Icing Fluid (MIL-A-8243)	1
Strong Acids	3
Strong Oxidants	2
Esters/Ketones	1
UV Light	1
Petroleum	1
Fungus (ASTM G-21)	1
Halogen Free	Yes
RoHS	Yes
SVHC	None