



## 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	Lbs/100'
				M	L		
1/8"	HWN0.13BK	1/16"	3/16"	125'	500'	BK	0.27
3/8"	HWN0.38	3/16"	3/4"	100'	500'	BK, CL, CB	0.82
5/8"	HWN0.63	5/16"	7/8"	75'	250'	5	1.10
1"	HWN1.00	1/2"	1 1/2"	50'	250'	BK, CL, CB	1.60
1 1/2"	HWN1.50	3/4"	2"	50'	250'	BK, CL, CB	2.50
2"	HWN2.00	1 1/2"	3"	50'	200'	BK, CL, CB	3.40
3"	HWN3.00	2"	4"	50'	100'	BK, CL, CB	4.20
4"	HWN4.00	2 1/2"	5 1/2"	50'	100'	BK, CL, CB	4.20

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



### FEATURES

Material	Polyethylene Terephthalate
Grade	HWN
Monofilament Diameter	.015"
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
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	5,262.7 mg
Post-Test Weight	4,979.9 mg
Test End Loss Of Mass Point Of Destruction	239.3 mg

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	.015"
Flammability Rating	UL94
Recommended Cutting	Hot Knife
Colors	5
Wall Thickness	.038"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	10
Specific Gravity (ASTM D-792)	1.38
Moisture Absorption % (ASTM D-570)	.1-2
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	
TML	.19
CVCM	.00
WVR	.16
Smoke D-Max (ASTM E-662)	56
Outgassing	Med
Oxygen Index (ASTM D-2863)	21

## FLAMMABILITY

Rating	UL94VO
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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