

- Extreme Abrasion And Cut Resistance
- Resists Gasoline, UV, Solvents, Salt Water And Chemicals
- Braided From .15 mil PET Monofilament

Put-Ups

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max				
1/8"	HWN0.13BK	1/16"	3/16"	500'	125'	BK	0.27
3/8"	HWN0.38	3/16"	3/4"	500'	100'	3	0.82
5/8"	HWN0.63	5/16"	7/8"	250'	75'	3	1.10
1"	HWN1.00	1/2"	1 1/2"	250'	50'	3	1.60
1 1/2"	HWN1.50	3/4"	2"	250'	50'	3	2.50
2"	HWN2.00	1 1/2"	3"	200'	50'	3	3.40
3"	HWN3.00	2"	4"	100'	50'	3	4.20
4"	HWN4.00	2 1/2"	5 1/2"	100'	50'	3	4.20



Cut Cleanly  
Hot Knife

Material  
Polyethylene Terephthalate

Grade  
HWN

Monofilament Diameter  
.015"

Drawing Number  
TF001HW-WD

50% Thicker For The Really Abrasive Jobs

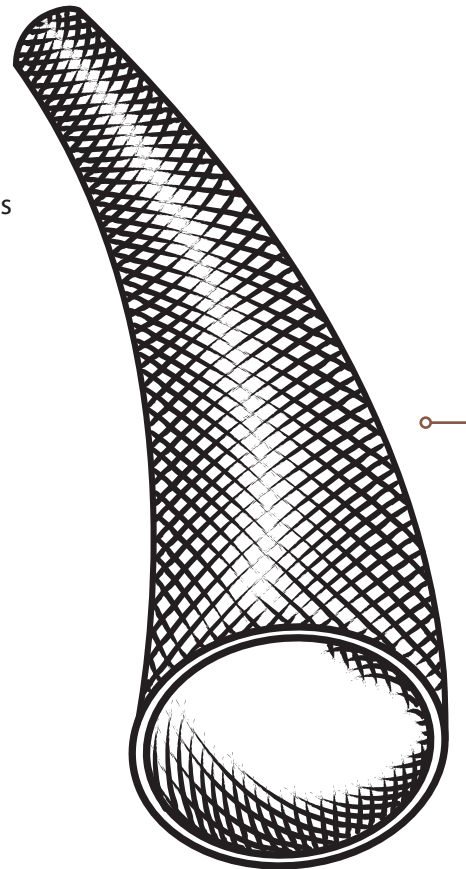
When your application calls for more protection than our 10 mil products provide, our 15 mil HW is the ideal solution.

HW is commonly used in industrial and marine applications where extreme abrasion protection is critical. The durability of HW makes it ideal for protecting hoses and cables that have to withstand constant contact with rough and abrasive surfaces.

HW is the perfect solution for use on chains and cables to protect painted or laminated surfaces from scuffing and wear.

HW protects trailer hitch harnesses from abrasion, flying debris and UV damage without affecting flexibility or trapping moisture like convoluted tubing.

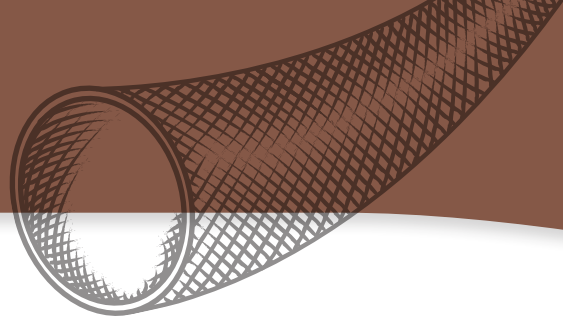
- Colors Available:  
3 = BK, CL, and CB.



Colors Available:



Clear (CL), Carbon (CB), and Black (BK).



## ABRASION FLAMMABILITY

**Abrasion Resistance**  
Medium

Rating \_\_\_\_\_ UL94VO

**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

## CHEMICAL RESISTANCE

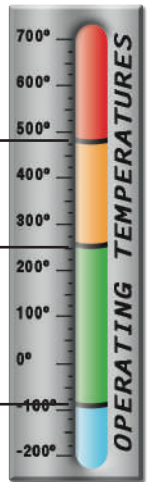
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Aromatic Solvents _____	2
Aliphatic Solvents _____	1
Chlorinated Solvents _____	3
Weak Bases _____	1
Salts _____	1
Strong Bases _____	2
Salt Water 0-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

**Melt Point**  
ASTM D-2117  
482°F (250°C)

**Maximum Continuous**  
Mil-I-23053  
257°F (125°C)

**Minimum Continuous**  
-94°F (-70°C)



## PHYSICAL PROPERTIES

Monofilament Diameter _____	.015
ASTM D-204	
Flammability Rating _____	UL94
Recommended Cutting _____	Hot Knife
Colors _____	3
Wall Thickness _____	.038
Tensile Strength (Yarn) _____	10
ASTM D-2256 Lbs	
Specific Gravity ASTM D-792 _____	1.38
Moisture Absorption _____	.1-.2
% ASTM D-570	
Hard Vacuum Data _____	
ASTM E-595 at 10-5 torr	
TML _____	.19
CVCM _____	.00
WVR _____	.16
Smoke D-Max _____	56
ASTM E-662	
Outgassing _____	Med
Oxygen Index _____	21
ASTM D-2863	