



## FLEXO® PET

### A VERSATILE BUNDLING AND PROTECTION SOLUTION · EXPANDS UP TO 150% FMVSS 302 APPROVAL

The FLEXO® Original braided from 10 mil polyethylene terephthalate (PET) monofilament yarns. The material has a wide operating temperature range, is resistant to chemical degradation, UV radiation, and abrasion. Used in electronics, automotive, marine and industria wire harnessing applications where cost efficiency and durability are critical. The unique braided construction and wide expandability allows quick and easy installation over large connectors and long runs.

#### SIZING CHART

| Nominal Size       | Part #    | Min Expansion | Max Expansion | *Put-Ups |        | Available Colors   | Lbs/100' |
|--------------------|-----------|---------------|---------------|----------|--------|--------------------|----------|
|                    |           |               |               | M        | L      |                    |          |
| 1/16"              | PTN0.06   | 3/64"         | 3/32"         | 250'     | 1,000' |                    | 0.22     |
| 1/8"               | PTN0.13   | 3/32"         | 1/4"          | 225'     | 1,000' |                    | 0.20     |
| 1/4"               | PTN0.25   | 1/8"          | 7/16"         | 200'     | 1,000' |                    | 0.30     |
| 5/16"              | PTN0.31   | 5/32"         | 15/32"        | 200'     | 1,000' |                    | 0.50     |
| 3/8"               | PTN0.38   | 3/16"         | 1/2"          | 125'     | 500'   |                    | 0.57     |
| 7/16"              | PTN0.44   | 7/32"         | 5/8"          | 100'     | 500'   |                    | 0.68     |
| 1/2"               | PTN0.50   | 1/4"          | 3/4"          | 100'     | 500'   |                    | 0.77     |
| 9/16"              | PTN0.56   | 5/16"         | 7/8"          | 100'     | 500'   | more<br>than<br>40 | 0.81     |
| 5/8"               | PTN0.63   | 3/8"          | 1"            | 100'     | 500'   |                    | 0.95     |
| 3/4"               | PTN0.75   | 1/2"          | 1 1/4"        | 75'      | 250'   |                    | 1.20     |
| 1"                 | PTN1.00   | 5/8"          | 1 5/8"        | 65'      | 250'   |                    | 1.34     |
| 1 1/4"             | PTN1.25   | 3/4"          | 1 3/4"        | 50'      | 250'   |                    | 1.60     |
| 1 1/2"             | PTN1.50   | 1"            | 2 1/8"        | 40'      | 200'   |                    | 1.96     |
| 1 3/4"             | PTN1.75   | 1 1/4"        | 2 3/4"        | 30'      | 200'   |                    | 2.45     |
| 2"                 | PTN2.00   | 1 1/2"        | 3 1/2"        | 50'      | 200'   |                    | 2.60     |
| 2 1/2"             | PTN2.50   | 1 3/4"        | 3 5/8"        | 50'      | 100'   |                    | 3.80     |
| 3"                 | PTN3.00   | 2 1/2"        | 4 3/4"        | 50'      | 100'   |                    | 4.00     |
| 3 END CONSTRUCTION |           |               |               |          |        |                    |          |
| 1/4"               | PT30.25   | 1/8"          | 3/8"          | 200'     | 1,000' | 4                  | 0.39     |
| 9 MIL CONSTRUCTION |           |               |               |          |        |                    |          |
| 4"                 | PT94.00BK | 4"            | 6 1/2"        | 50'      | 100'   | BK                 | 3.80     |
| PET LEAN           |           |               |               |          |        |                    |          |
| 3/4"               | PTL0.75BK | 1/2"          | 1 1/4"        | 75'      | 250'   | BK                 | 1.04     |
| 1 1/4"             | PTL1.25BK | 3/4"          | 1 3/4"        | 50'      | 250'   | BK                 | 1.19     |

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





## FEATURES

|                       |                            |
|-----------------------|----------------------------|
| Material              | Polyethylene Terephthalate |
| Grade                 | PTN                        |
| Monofilament Diameter | .010"                      |
| Drawing Number        | TF001PET-WD                |
| Cutting               | Hot Knife                  |

## ABRASION

|                                            |                   |
|--------------------------------------------|-------------------|
| Abrasion Resistance                        | HIGH              |
| Abrasion Test Machine                      | Taber 5150        |
| Abrasion Test Wheel                        | Calibrase H-18    |
| Abrasion Test Load                         | 500g              |
| Room Temperature                           | 77°F              |
| Humidity                                   | 72%               |
| Two Broken Filaments                       | 300 Test Cycles   |
| Approx 6 Broken Filaments                  | 500 Test Cycles   |
| Material Destroyed                         | 1,150 Test Cycles |
| Pre-Test Weight                            | 4,547.4 mg        |
| Post-Test Weight                           | 4,133.9 mg        |
| Test End Loss Of Mass Point Of Destruction | 413.5 mg          |

## PHYSICAL PROPERTIES

|                                            |            |
|--------------------------------------------|------------|
| Monofilament Diameter (ASTM D-204)         | .010"      |
| Flammability Rating                        | UL94       |
| Recommended Cutting                        | Hot KnifeK |
| Colors                                     | 40+        |
| Wall Thickness                             | .025"      |
| Tensile Strength (Yarn) (ASTM D-2256 Lbs)  | 7.5        |
| 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                                 | Medium     |
| Oxygen Index (ASTM D-2863)                 | 21         |

## CERTIFICATIONS



## COLORS

40+ (see next pages)

## FLAMMABILITY

|        |                          |
|--------|--------------------------|
| Rating | UL94VO, FAR25, FMVSS-302 |
|--------|--------------------------|

## 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 (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 |

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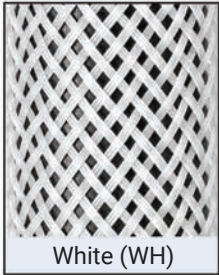
08-01-23





# GENERAL PURPOSE

Supplemental Color Sheet



White (WH)



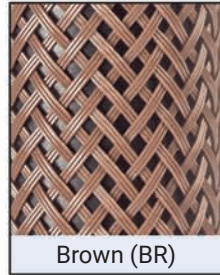
Checkered Flag (CF)



Platinum Gray (PG)



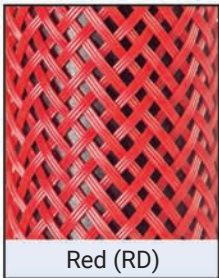
Snake (SK)



Brown (BR)



Aqua (AQ)



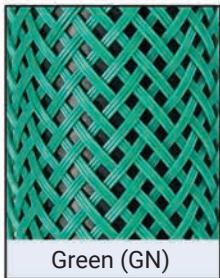
Red (RD)



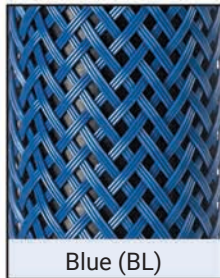
Orange (OR)



Yellow (YL)



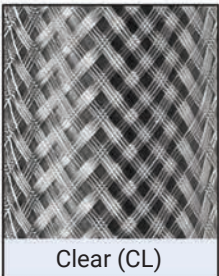
Green (GN)



Blue (BL)



Purple (PP)



Clear (CL)



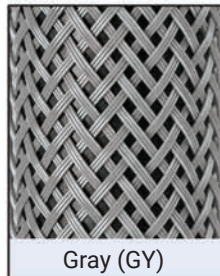
Black (BK)



Carbon (CB)



Beige (BE)



Gray (GY)



Dark Purple (DP)



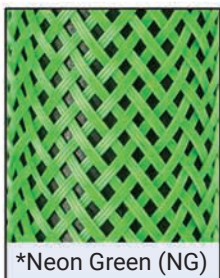
\*Neon Red (NR)



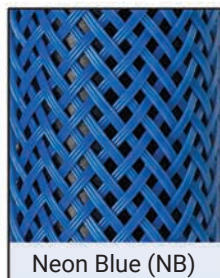
\*Neon Pink (NP)



\*Neon Yellow (NY)



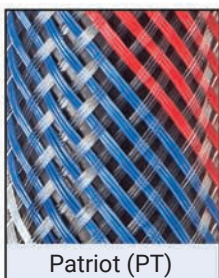
\*Neon Green (NG)



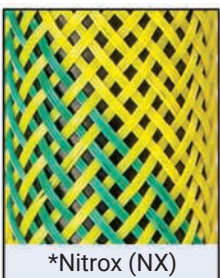
Neon Blue (NB)



Neon Orange (NO)



Patriot (PT)



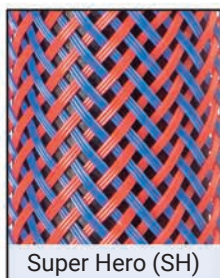
\*Nitrox (NX)



\*Jester (JS)



\*Ogre (OG)



Super Hero (SH)



Safety Stripe (SS)

\*UV Reactive



**THE POSSIBILITIES ARE ENDLESS  
WITH CUSTOM COMBINATION COLORS  
MANUFACTURED BY TECHFLEX®!**



Reggae (RE)



Forest Green (FG)



Black Magic (BM)



Candy Cane (CC)



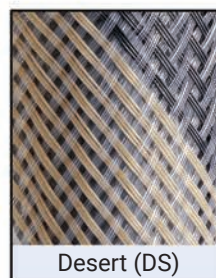
Alien (AL)



Monochrome (MO)



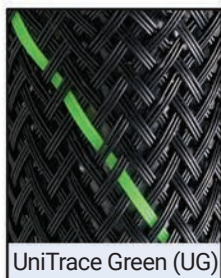
Gray White (GW)



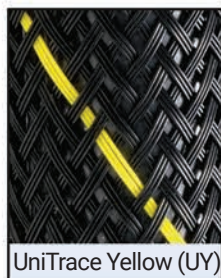
Desert (DS)



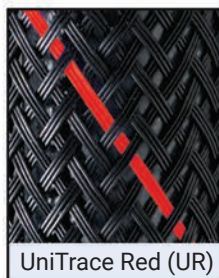
Red Spiral (RS)



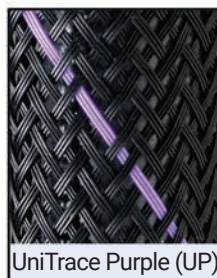
UniTrace Green (UG)



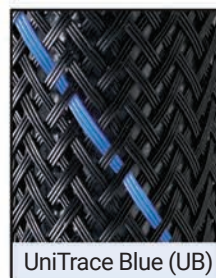
UniTrace Yellow (UY)



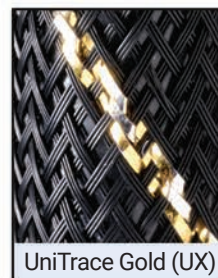
UniTrace Red (UR)



UniTrace Purple (UP)



UniTrace Blue (UB)



UniTrace Gold (UX)



Coral (CO)



Hip Hop (HH)



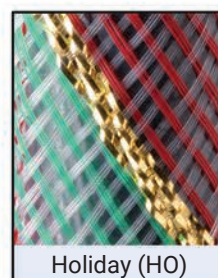
Sherbert (SB)



Twilight (TL)



Rainbow (RW)



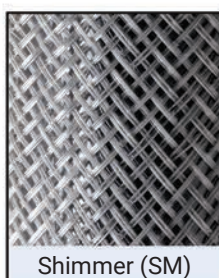
Holiday (HO)



Black Beige (BB)



Ground Wire (GD)



Shimmer (SM)



Corn Kernel (CK)



Rainbow Clear (RC)



Rainbow Black (RB)