GENERAL PURPOSE
Technical Data Sheet

FLEXO® PET

A Versatile Bundling And Protection Solution

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 industrial 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.

High thermal and chemical resistance and wide color/size selection make FLEXO® Original PET ideal for customizing and protecting the wires, hoses and cables in custom and classic colors.

**Put-Ups**

<table>
<thead>
<tr>
<th>Nominal Size</th>
<th>Part #</th>
<th>Expansion Range</th>
<th>Bulk Spool</th>
<th>Shop Spool</th>
<th>Retail</th>
<th>Clamp</th>
<th>Bag</th>
<th>Available Colors</th>
<th>Lbs/100'</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”</td>
<td>PTN0.13</td>
<td>3/32” - 1/4”</td>
<td>1,000'</td>
<td>225'</td>
<td>110'</td>
<td>25'</td>
<td>10'</td>
<td>25</td>
<td>0.18</td>
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<tr>
<td>1/4”</td>
<td>PTN0.25</td>
<td>1/8” - 7/16”</td>
<td>1,000'</td>
<td>200'</td>
<td>100'</td>
<td>25'</td>
<td>10'</td>
<td>25</td>
<td>0.26</td>
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<tr>
<td>3/8”</td>
<td>PTN0.38</td>
<td>3/16” - 1/2”</td>
<td>500’</td>
<td>125’</td>
<td>60’</td>
<td>25’</td>
<td>10’</td>
<td>25</td>
<td>0.57</td>
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<tr>
<td>1/2”</td>
<td>PTN0.50</td>
<td>1/4” - 3/4”</td>
<td>500’</td>
<td>100’</td>
<td>50’</td>
<td>25’</td>
<td>10’</td>
<td>25</td>
<td>0.77</td>
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<tr>
<td>5/8”</td>
<td>PTN0.63</td>
<td>3/8” - 1”</td>
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<td>100’</td>
<td>50’</td>
<td>25’</td>
<td>10’</td>
<td>25</td>
<td>0.95</td>
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<tr>
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<td>1/2” - 1 1/4”</td>
<td>250’</td>
<td>75’</td>
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<td>25’</td>
<td>10’</td>
<td>25</td>
<td>1.20</td>
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<td>25</td>
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<td>25</td>
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3 End Construction

<table>
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<tr>
<th>Nominal Size</th>
<th>Part #</th>
<th>Expansion Range</th>
<th>Bulk Spool</th>
<th>Shop Spool</th>
<th>Retail</th>
<th>Clamp</th>
<th>Bag</th>
<th>Available Colors</th>
<th>Lbs/100’</th>
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</thead>
<tbody>
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<td>PT30.25</td>
<td>1/8” - 3/8”</td>
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<td>100’</td>
<td>25’</td>
<td>10’</td>
<td>BK, CL</td>
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9 Mil Construction

<table>
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<tr>
<th>Nominal Size</th>
<th>Part #</th>
<th>Expansion Range</th>
<th>Bulk Spool</th>
<th>Shop Spool</th>
<th>Retail</th>
<th>Clamp</th>
<th>Bag</th>
<th>Available Colors</th>
<th>Lbs/100’</th>
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</thead>
<tbody>
<tr>
<td>4”</td>
<td>PT94.00BK</td>
<td>4” - 6 1/2”</td>
<td>100’</td>
<td>50’</td>
<td>25’</td>
<td>n/a</td>
<td>10’</td>
<td>BK</td>
<td>3.80</td>
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</tbody>
</table>

**Colors Available:**
25 = See color chart

Economical And Easy To Install

Resists Gasoline, Engine Chemicals And Cleaning Solvents

Expands Up To 150%

Cut And Abrasion Resistant

FMVSS 302 Approval

**Material**
Polyethylene Terephthalate

**Grade**
PTN

**Monofilament Diameter**
.010”

**Drawing Number**
TF001PET-WD

**Cut Cleanly Hot Knife**

**www.techflex.dk**
**FLEXO® PET**

**ABRASION RESISTANCE**

Medium Abrasion

**Abrasion Test Machine**

Taber 5150

**Abrasion Test Wheel**

Calibrase H-18

**Abrasion Test Load**

500g

**Room Temperature**

77°F

**Humidity**

72%

**Two Broken Filament**

300 Test Cycles

**Approximately 6 Broken Filaments**

500 Test Cycles

**Material Destroyed - Very Visible Hole In Material**

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

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**CHEMICAL RESISTANCE**

- **Aromatic Solvents**: 2
- **Aliphatic Solvents**: 1
- **Chlorinated Solvents**: 3
- **Weak Bases**: 1
- **Salts**: 1
- **Strong Bases**: 2
- **Salt Water**: 0-S-1926
- **Hydraulic Fluid**: MIL-H-5606
- **Lube Oil**: MIL-L-7808
- **De-Icing Fluid**: MIL-A-8243
- **Strong Acids**: 3
- **Strong Oxidants**: 2
- **Esters/Keytones**: 1
- **UV Light**: 1
- **Petroleum**: 1
- **Fungus**: ASTM G-21
- **Halogen Free**: Yes
- **RoHS**: Yes
- **SVHC**: None

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**FLAMMABILITY**

Rating: UL94VO, FAR25, FMVSS-302

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**PHYSICAL PROPERTIES**

- **Monofilament Diameter**: 0.010
- **Flammability Rating**: UL94
  
  FMVSS-302 Approved

- **Recommended Cutting**: Hot Knife

- **Colors**: 25

- **Wall Thickness**: 0.025

- **Tensile Strength (Yarn)**: 7.5
  
  ASTM D-2256

- **Specific Gravity**: 1.38
  
  ASTM D-792

- **Moisture Absorption**: 1.2%
  
  ASTM D-570

- **Hard Vacuum Data**: ASTM E-595 at 10-5 torr
  
  TML: 0.19
  
  CVCM: 0.00
  
  WVR: 0.16
  
  Smoke D-Max: 56
  
  ASTM E-662

- **Outgassing**: Med

- **Oxygen Index**: 21
  
  ASTM D-2863

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**Melt Point**

ASTM D-2117

482°F (250°C)

**Maximum Continuous**

Mil-1-23053

257°F (125°C)

**Minimum Continuous**

-94°F (-70°C)

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**OPERATING TEMPERATURES**

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Techflex offers FLEXO® Original PET in the widest range of in-stock standard colors in the industry, including UV reactive and multicolor spirals. Additionally, we can manufacture in custom solid or spiral combination colors.
General Purpose
Color Sheet

**FLEXO® PET**

- Custom combination colors manufactured by Techflex
- The possibilities are endless!

**Custom Combinations:**

23 Pictured

- **CC Candy Cane**
  - White with Red Spiral

- **AU Alien**
  - White with Green Spiral

- **MO Monochrome**
  - Clear with Black and White Spiral

- **GW Gray White**
  - Clear with Gray and White Spiral

- **DS Desert**
  - White with Beige and Black Spiral

- **RS Red Spiral**
  - Clear with Red and Black Spiral

- **UG Uptown Green**
  - Black with Green Stripe

- **UY Uptown Yellow**
  - Black with Yellow Stripe

- **UR Uptown Red**
  - Black with Red Stripe

- **UP Uptown Purple**
  - Black with Purple Stripe

- **UB Uptown Blue**
  - Black with Blue Stripe

- **UX Uptown Gold**
  - Black with Gold Stripes

- **CO Coral**
  - Clear with Black, Neon Yellow and Neon Red Spiral

- **HH Hip Hop**
  - Clear with Black, Neon Pink and Neon Yellow Spiral

- **SB Sherbert**
  - Clear with Purple, Neon Green, Neon Pink and Neon Yellow Spiral

- **TL Twilight**
  - Clear with Black, Purple and Green Spiral

- **RW Rainbow**
  - Red, Orange, Black, Blue, Yellow, Green & Gray Spirals

- **HO Holiday**
  - Clear with Red and Green Spiral and Gold Strip

- **BB Black Beige**
  - Black with Beige Criss Cross Spiral

- **GD Ground Wire**
  - Green with Neon Yellow Spiral

- **SM Shimmer**
  - Gray and Clear

- **SP Spyder**
  - Black and Red Criss Cross

- **CK Corn Kernel**
  - Yellow with Green Stripe