

1/2 INCH FLEXO PET (PT)

PRODUCT DESCRIPTION

The FLEXTM 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 FLEXTM Original PET ideal for customizing and protecting the wires, hoses and cables in custom and classic colors.

- Economical And Easy To Install
- Resists Gasoline, Engine Chemicals And Cleaning Solvents
- Expands Up To 150%
- Cut And Abrasion Resistant
- FMVSS 302 Approval
- Cut Cleanly: Hot Knife
- Material: Polyethylene Terephthalate
- Grade: PTN
- Monofilament Diameter: .010"

Nominal Size	Expansion Rate		Available Colors	Lbs./100'
	Min	Max		
7/16"	7/32"	5/8"	More than 40 color options	0.68
1/2"	1/4"	3/4"		0.77
9/16"	5/16"	7/8"		0.81
5/8"	3/8"	1"		0.95
3/4"	1/2"	1-1/4"		1.20
1"	5/8"	1-5/8"		1.34
1-1/4"	3/4"	1-3/4"		1.60

ABRASION-FLAMMABILITY

- 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 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
- Flame Rating: UL94VO, FAR25, FMVSS-302

CHEMICAL RESISTANCE

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

CHEMICAL RESISTANCE - CONTINUED

- UV Light: 1
- Petroleum: 1
- Fungus ASTM G-21: 1
- Halogen Free: Yes
- RoHS: Yes
- SVHC: None

PHYSICAL PROPERTIES

- Monofilament Diameter: .010 ASTM D-204
- Flammability Rating: UL94 FMVSS-302 Approved
- Recommended Cutting: Hot Knife
- Colors: >40
- Wall Thickness: .025 Tensile
- Strength (Yarn): 7.5 ASTM D-2256 Lbs
- Specific Gravity ASTM D-79: 1.38
- 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
- Melt Point: ASTM D-2117 482°F (250°C)
- Maximum Continuous: MIL-I-23053 257°F (125°C)
- Minimum Continuous: -94°F (-70°C)
- Custom combination colors manufactured by Techflex
- The possibilities are endless!