

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

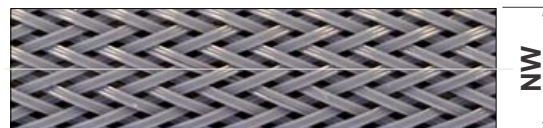


- Economical and easy to install
- Cut and abrasion resistant
- Expands up to 150%
- Halogen free
- Resists gasoline, engine chemicals and cleaning solvents
- FMVSS 302 approved



TYPE	COLOUR
MPT 0.50 BK .30	
NW	PU

	<b>Melt Point</b>
	ASTM D-2117 482°F (250°C)
	<b>Maximum Continuous</b>
	Mil-I-23053 257°F (125°C)
	<b>Minimum Continuous</b>
	-94°F (-70°C)



Specifications are subject to change without notice

Order Number	Nominal Width	Minimum Diameter		Maximum Diameter		Weight		Standard Spool Put-Ups	
	(NW)	(mm)	(in)	(mm)	(in)	Kg/100m	Lbs/100'	(M)	(F)
MPT0.13BK.65	1/8"	2.4	3/32"	6.4	1/4"	0.27	0.18	65	225
MPT0.25BK.60	1/4"	3.2	1/8"	11.1	7/16"	0.39	0.26	60	200
MPT0.38BK.38	3/8"	4.8	3/16"	12.7	1/2"	0.85	0.57	38	125
MPT0.50BK.30	1/2"	6.4	1/4"	19.1	3/4"	1.14	0.77	30	100
MPT0.63BK.30	5/8"	9.5	3/8"	25.4	1"	1.41	0.95	30	100
MPT0.75BK.22	3/4"	12.7	1/2"	31.8	1 1/4"	1.78	1.20	22	75
MPT1.00BK.20	1"	15.9	5/8"	41.3	1 5/8"	1.99	1.34	20	65
MPT1.25BK.15	1 1/4"	19.1	3/4"	44.5	1 3/4"	2.38	1.60	15	50
MPT1.50BK.12	1 1/2"	25.4	1"	54.0	2 1/8"	2.91	1.96	12	40
MPT1.75BK.9	1 3/4"	31.8	1 1/4"	69.9	2 3/4"	3.64	2.45	9	30
MPT2.00BK.15	2"	38.1	1 1/2"	88.9	3 1/2"	4.90	3.30	15	50
MPT2.50BK.15	2 1/2"	44.5	1 3/4"	92.1	3 5/8"	5.65	3.80	15	50
MPT3.00BK.15	3"	63.5	2 1/2"	120.7	4 3/4"	5.94	4.00	15	50

Moltec offers MPT in the widest range of standard colours in the industry, including UV reactive and multicolour spirals. Additionally, we can manufacture MPT in custom solid or spiral combinations.



## Abrasion Test Data

- Abrasion resistance: **Medium**
- 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 wear out: **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 *FMVSS-302 Approved*: **UL94**
- Recommended cutting: **Hot Knife**
- Colours: **25**
- Wall thickness: **.025**
- Tensile strength *ASTM D-2256 Lbs (Yarn)*: **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: **Med**
- Oxygen index *ASTM D-2863*: **21**

### MPT - Chemical Resistance Index

	Severely Affected	More Affected	Affected	Little Effect	No Effect
Aromatic Solvents	5	4	3	2	1
Aliphatic Solvents	5	4	3	2	1
Chlorinated Solvents	5	4	3	2	1
Weak Bases	5	4	3	2	1
Salts	5	4	3	2	1
Strong Bases	5	4	3	2	1
Salt Water 0-S-1926	5	4	3	2	1
Hydraulic Fluid MIL-H-5606	5	4	3	2	1

	Severely Affected	More Affected	Affected	Little Effect	No Effect
Lube Oil MIL-L-7808	5	4	3	2	1
De-Icing Fluid MIL-A-8243	5	4	3	2	1
Strong Acids	5	4	3	2	1
Strong Oxidants	5	4	3	2	1
Esters/Ketones	5	4	3	2	1
UV Light	5	4	3	2	1
Petroleum	5	4	3	2	1
Fungus ASTM G-21	5	4	3	2	1