

Plasma 12 Strand HMPE

Plasma 12 strand is the highest strength synthetic rope available. Plasma 12 strand is manufactured from High Modulus Polyethylene (HMPE) that has been enhanced by a patented recrystallization process. This process is especially effective in medium to large diameter ropes where strengths are over 50% higher and creep is significantly less than that of other HMPE alternatives.

Plasma 12 strand is delivered standard with a polyurethane finish and is easily spliced using a simple lockstitch type splice, 4-3-2 or 5-4-3 Tuck Splice. Its soft, torque free braided construction provides easy handling.

Plasma rope has the added advantage of DNV and ABS class type approval throughout its range.

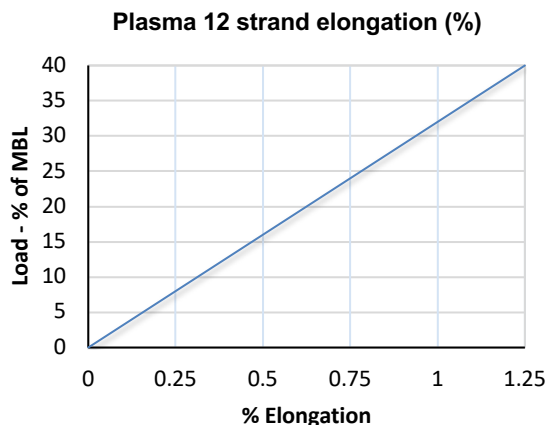
Features

- Highest strength to weight ratio of any fibre
- Safer than wire
- Low Creep
- Easy to splice
- High UV & Chemical Resistance
- Excellent durability
- Very low elongation

Technical Information

Specific gravity	.98*
Melting point	140°C
Critical temp.	65°C
Elongation at break	3%-4%
Coefficient of friction	0.09-0.12*
Floats/Sinks	floats
UV resistance	good
Wet abrasion	superior
Dry abrasion	superior

* value based on data supplied by the fibre manufacturer for new, dry fibre



Nominal Diameter		Size Circ.	Approximate Weight	Minimum Tensile Strength Spliced	Minimum Tensile Strength ISO Unspliced
Inch	MM	Inches	Kg/ 100m	Tonnes (Te)	Tonnes (Te)
0.04"	1	0.12	0.1	0.1	0.13
0.05"	1.25	0.15	0.1	0.2	0.20
0.06"	1.5	0.18	0.1	0.2	0.23
0.07"	1.75	0.21	0.2	0.3	0.38
0.1"	2.5	0.3	0.4	0.6	0.7
1/8"	3	3/8"	0.8	1.3	1.4
3/16"	5	9/16"	1.7	2.5	2.8
1/4"	6	3/4"	2.4	3.6	4.0
5/16"	8	15/16"	3.7	5.3	5.9
3/8"	9	1 1/8"	5.5	7.9	8.8
7/16"	11	1 1/4"	6.3	9.5	10.6
1/2"	12	1 1/2"	9.5	14.2	15.8
9/16"	14	1 3/4"	11.8	17.2	19.1
5/8"	16	2"	15.8	23.3	25.9
3/4"	18	2 1/4"	19.8	31.1	34.6
13/16"	20	2 1/2"	23.7	33.6	37.2
7/8"	22	2 3/4"	29.2	42.0	46.7
1"	24	3"	34.8	49.9	55.4
1 1/16"	26	3 1/4"	40.9	58.6	65.1
1 1/8"	28	3 1/2"	47.5	66.7	74.1
1 1/4"	30	3 3/4"	53.9	74.9	83.1
1 5/16"	32	4"	62.1	88.9	98.8
1 1/2"	36	4 1/2"	76.9	100.3	111.3