

Marlow[®] DATASHEET

D2 RACING 78 & D2 GRAND PRIX 78

D2 Grand Prix 78 has a Dyneema core and Technora/Polyester blended cover which offers the sailor a high strength, light weight, abrasion resistant, grippy and heat resistant rope.

D2 Racing has a polyester cover with Dyneema core and is the ideal option across all applications on board.



APPLICATIONS

Halyards, Sheets, Guys, Reefing Lines, Runner-Tails, Control Lines, Out/Downhauls, Vang, Furlers

MATERIAL

CORE:

Manufactured from Dyneema SK78
HMPE (High-Modulus Polyethylene)
Very light weight - more than 8x lighter than steel wire for a given strength
High strength - 80% stronger than steel wire for a given weight
Low Stretch - see graph below
Good resistance to chemicals and UV
Zero water shrinkage
Very low creep HMPE fibre
Exhibits approximately 20% of the creep experienced by SK75.
Further information available.

D2 RACING 78 COVER:

Manufactured from Polyester
Good abrasion resistance
Excellent UV resistance

D2 GRAND PRIX 78 COVER:

Manufactured from Technora/Polyester blend
Good UV resistance
Excellent abrasion and heat resistance

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION:

12 STRAND BRAIDED CONSTRUCTION:

Improved abrasion resistance
Optimised pitch to yarn twist - improves strength and longevity
Firmer rounder rope, aids handling
Easy to splice
Flexible product and easily handled
Torque balanced

24 PLAIT BRAIDED COVER CONSTRUCTION: Protects load bearing core from dirt and abrasion
Round and firm construction

PROPERTIES

RELATIVE DENSITY:

1.15 Exact figure varies with diameter

CHEMICAL RESISTANCE:

Excellent resistance to most chemicals (additional information available on request).

UV RESISTANCE:

Good

MELTING POINT:

Core: 140°C - Cover: 260°C (Polyester), 500°C (Technora)

CRITICAL TEMPERATURE (CORE):

80°C (prolonged exposure to temperatures over this will result in

TERMINATIONS

SPliced EYE TERMINATION: 12 strand core splice

An allowance of 40x rope diameter should be made for the overall length of the splice.

To optimise the efficiency of a soft eye splice (without a thimble), the angle formed at the neck of the splice should be 30° or less, meaning that when flat, the length of the eye must be 2.7x the diameter of the object over which the splice will be used.

A splice will normally increase the diameter of the rope between 1.5x and 1.75x.

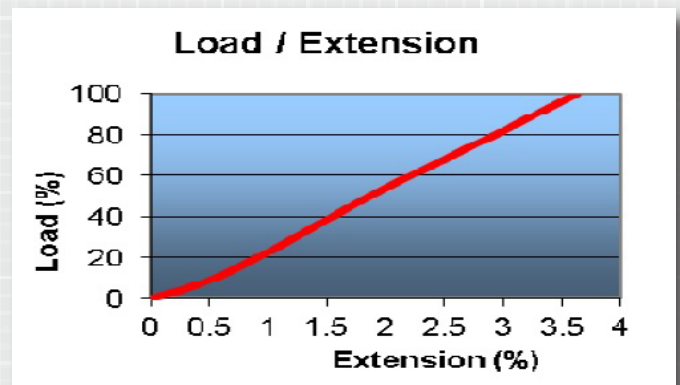
N.B. KNOTS WILL SIGNIFICANTLY REDUCE THE STRENGTH OF ANY ROPE. THIS PRODUCT WILL TYPICALLY RETAIN APPROXIMATELY 40% OF ITS STRENGTH IF TERMINATED WITH A KNOT. THE EXACT FIGURE WILL DEPEND ON THE TYPE OF KNOT USED AND OTHER FACTORS.

ELONGATION

Typical working elongation (for a bedded in rope):

@ 10% of break load: 0.51%

@ 20% of break load: 0.89%



PERFORMANCE

DIAMETER		MASS		AVERAGE STRENGTH			MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
8	5/16	39	2.62	3487	7671	34.2	2680	5896	26.3
10	13/32	59.2	3.97	5360	11792	52.6	4931	10848	48.4
12	15/32	92.9	6.23	6940	15268	68.1	6246	13741	61.3
14	3/8	116.6	7.82	9274	20403	91.0	8532	18770	83.7
16	5/8	146.9	9.85	11592	25502	113.7	10665	23463	104.6
18	3/4	185.2	12.42	15851	32822	146.4	14266	30195	134.6

Marlow Ropes Ltd
Ropemaker Park
Hailsham
East Sussex, BN27 3GU
England

Marlow Ropes, Inc.
Cordage Business Park
Plymouth
MA 02360
USA

www.marlowropes.com
UK: +44 (0) 1323 444 444
sales@marlowropes.com
US: +1 508 830 444
salesusa@marlowropes.com

Disclaimer

Marlow Ropes Ltd endeavours to ensure that all products are manufactured to the highest standard, these guidelines are not intended and do not create any warranties, express or implied.

Marlow Ropes Ltd expressly disclaims warranties or representations of any kind, express or implied, including the implied warranties of merchantability and fitness for a particular purpose.

Marlow Ropes Ltd shall not be liable for any consequential, incidental or contingent damages whatsoever stemming from the use of these guidelines.

Marlow Ropes Ltd has a policy of continual improvement which may result in specification and colour changes without prior notice.



Certification Number 315

ISO 9001