

Marlow[®] DATASHEET

D2 RACING 78

MADE WITH BIO BASED
DYNEEMA[®] FIBRE 

Light weight, low stretch and high strength using a colour coded D12 Dyneema[®] SK78 core, the popular D2 Racing has a hard-wearing polyester cover for easy handling and tapering, and is the ideal option across all applications on board.

As an engineered upgrade, D2 Racing can be used in a smaller size over a polyester halyard such as the Doublebraid thanks to the higher breakloads enabled by the use of Dyneema[®] in the core.



NEW MOTTLED COVERS NOW AVAILABLE!

RED & GREY | BLUE & GREY | GREEN & GREY | BLACK & GREY | LIME & GREY | ORANGE & GREY

APPLICATIONS

Halyards, Sheets, Guys, Reefing Lines, Runner-Tails, Control Lines, Out/Downhails, 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.

COVER:

24 plait Polyester
Good abrasion resistance
Excellent UV resistance

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.

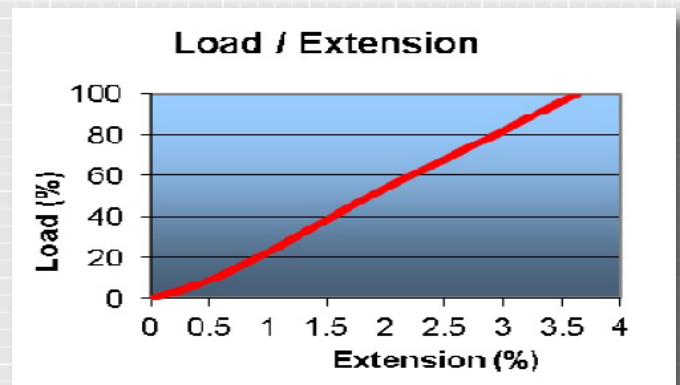
N.B. KNOTS WILL SIGNIFICANTLY REDUCE THE STRENGTH OF ANY ROPE. THIS PRODUCT WILL TYPICALLY RETAIN APPROXIMATELY 40% OF ITS STRENGTH IF TERMINATED WITH A KNOT. THE EXACT FIGURE WILL DEPEND ON THE TYPE OF KNOT USED AND OTHER FACTORS.

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	3490	7670	34.2	3140	6900	30.8
10	13/32	59.2	3.97	5360	11800	52.6	4930	10800	48.4
12	15/32	92.9	6.23	6940	15300	68.1	6250	13700	61.3
14	9/16	117	7.82	9270	20400	91.0	8530	18800	83.7
16	5/8	166	11.13	12800	28160	126	11600	25600	114
18	3/4	185	12.42	15900	34900	155	14300	31400	140

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.

