

Marlow®

DATASHEET

EXCEL RACING GP 78

Excel Racing GP 78 offers an upgraded cover to Excel Racing. The Technora/Polyester blended cover offers superb abrasion resistance and added grip both in wet hands and cleats.



APPLICATIONS

High Grip Lines, Control Lines, Halyards, Backstays

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 table below
Good resistance to chemicals and UV
Zero water shrinkage
Low creep

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:

140°C

CRITICAL TEMPERATURE:

80°C (exposure to temperatures over this will result in permanent strength loss)

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

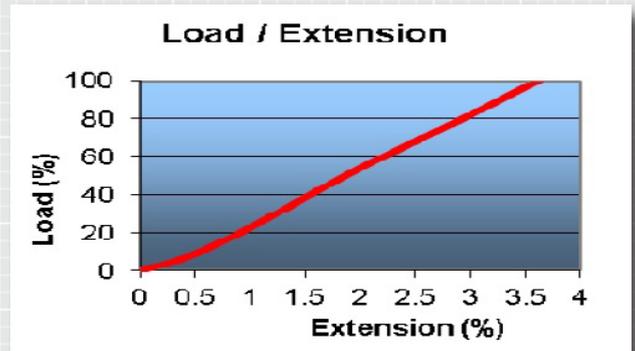
ELONGATION

Typical working elongation (for a bedded in a rope):

@ 10% of break load: 0.51%

@ 20% of break load: 0.89%

To break: 3.60%



PERFORMANCE

DIAMETER	CIRCUMFERENCE	MASS		AVERAGE STRENGTH			MIN STRENGTH		
		mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg
4	5/32	11.2	0.83	995	2189	9.8	855	1881	8.4
5	3/16	19.5	1.23	1434	3155	14.1	1070	2354	10.5
6	7/32	27.2	1.62	2056	4523	20.2	1520	3344	14.9

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