

Marlow[®] DATASHEET[®]

EXCEL FUSION

Super light sheet is soft, flexible and does not absorb water. The lightweight polypropylene and Dyneema[®] cover ensures the rope lasts through cleats and ratchet blocks. The pre-stretched Dyneema[®] core ensures minimal stretch and fantastic control.



APPLICATIONS

Sheets

MATERIAL

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 DYNEEMA POLYPROPYLENE BLEND:

Good abrasion
Very light weight
Very low water absorption

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION: 12 STRAND CORE CONSTRUCTION:

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

16 PLAIT BRAIDED COVER CONSTRUCTION:

Protects load bearing core from dirt and abrasion
Round and firm construction

PROPERTIES

| | |
|-----------------------------|--|
| RELATIVE DENSITY: | 0.95 (Floats) Exact figure varies with diameter |
| CHEMICAL RESISTANCE: | Excellent resistance to most chemicals (additional information available on request) |
| UV RESISTANCE: | Good |
| MELTING POINT: | 140°C |

TERMINATIONS

SPliced EYE TERMINATION: Core can be spliced by D12 method

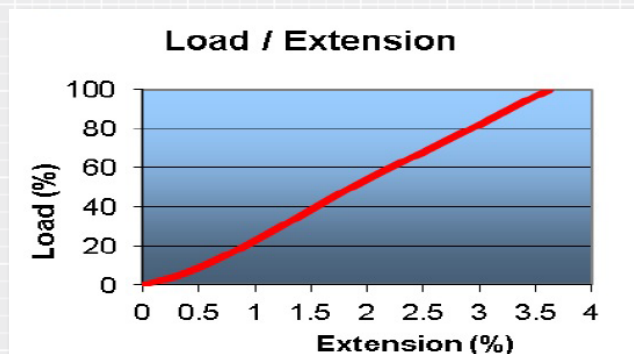
ELONGATION

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

@ 10% of break load: 0.5%

@ 20% of break load: 0.9%

To break: 3.6%



PERFORMANCE

| DIAMETER | | CIRCUMFERENCE | | MASS | | AVERAGE STRENGTH | | | MIN STRENGTH | | |
|----------|------|---------------|-----------|------|------|------------------|------|------|--------------|--|--|
| mm | Inch | g/m | lb/100 ft | kg | lb | kN | kg | lb | kN | | |
| 6 | 7/32 | 17 | 1.14 | 1088 | 2394 | 10.7 | 1001 | 2202 | 9.8 | | |
| 7 | 1/4 | 22 | 1.48 | 1333 | 2933 | 13.1 | 1226 | 2698 | 12.0 | | |
| 8 | 5/16 | 30 | 2.01 | 1411 | 3104 | 13.8 | 1298 | 2856 | 12.7 | | |
| 10 | 3/8 | 44 | 2.95 | 2472 | 5438 | 24.3 | 2274 | 5003 | 22.3 | | |

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