

Marlow®

DATASHEET

D12 78

Manufactured using Dyneema's SK78 fibre, D12 78 sets the standard for high performance lightweight ropes and cores. The workhorse of any racing yacht, uncovered D12 can be used for strops, lashing, and purchase systems, backstays and some halyards. With a cover, D12 is ideal for sheets halyards, runners, control lines etc.



APPLICATIONS

Sailing, Halyards, Strops, Tacklines, Lashings, Purchase Systems

MATERIAL

Manufactured from Dyneema SK78
HMPE (High-Modulus Polyethylene)
Very light weight - 6x lighter than steel wire for a given strength
High strength - 60% stronger than steel wire for a given diameter
Low Stretch - see graph below
Good resistance to chemicals and UV
Zero water shrinkage
Low creep HMPE fibre

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION:

Improved abrasion resistance

12 STRAND BRAIDED CONSTRUCTION:

Optimised pitch to yarn twist - improves strength & longevity

Firmer rounder rope, aids handling

Easy to splice

Flexible product and easily handled

Torque balanced

HEAT SET AND PRE-STRETCHED:

Improves strength / diameter ratio

Reduces initial elongation

COATING OPTIONS

MARLOW ARMOURCOAT (STANDARD FINISH):

Specially formulated polyurethane coating
Improves abrasion resistance and durability
Increases friction, aids handling & splicing
Provides colour coding

MARLOW GRIPCOAT:

Synthetic Polymer Anionic Coating
Prevents ingress of dirt and abrasive particles
Provides "self healing" properties
Increases coefficient of friction

MARLOW COOLCOAT:

Significantly improves core/cover adhesion
Enhances bending performance
Reduces yarn on yarn abrasion and heat generation by a factor of 2
Applied at rope manufacture stage

PROPERTIES

RELATIVE DENSITY:

0.97 (floats)

CHEMICAL RESISTANCE:

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

UV RESISTANCE:

Very good

MELTING POINT:

140°C

CRITICAL TEMPERATURE:

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