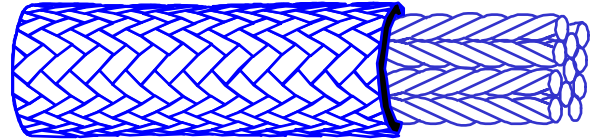


DeepRope® Dyneema®

CONSTRUCTION

The DeepRope® line for mooring applications is a so-called parallel core construction. This construction consists of two parts, namely the core elements and the cover (see figure).

The core elements are three-strand ropes that are oriented parallel to the longitudinal axis of the rope. The cover is a Bexcoline Composite braid that provides dimensional stability to the rope structure and protects the cores from external damage. It is treated with a Marine Finish to further enhance the life of the cover under abrasion loads. The cover braid does not contribute to the strength of the rope. The three-strand core design is used because of the good stretch characteristics and excellent splice strength efficiency exhibited by this type of core design.



Because of its low weight and small diameter a DeepRope® Dyneema® can be transported without special measures. In most cases length is dictated by the use and not by shipping limitations.

MATERIAL PROPERTIES

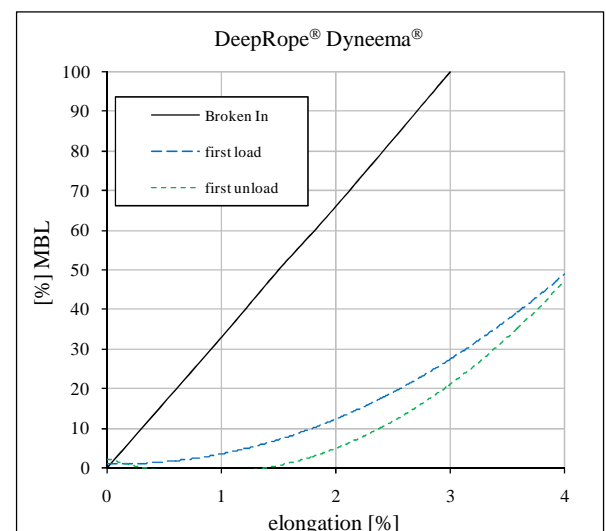
Polyethylene is an amorphous plastic with relatively low tensile strength. Through gel spinning the crystals achieves a maximum orientation, this give the material a high strength and stiffness. And it is commonly known as **H**igh **M**odulus **P**oly**E**thylene. It has an extremely low coefficient of friction and is extremely resistant to abrasion. The thermal properties of HMPE are comparable to ordinary Polyethylene. HPME is also prone to cold flow and therefore has a high creep rate.

FEATURES

- Material: High Modulus Polyethylene (Dyneema® SK 75)
- Construction: load-bearing cores with a protective cover of composite yarn (other covers on request)
- Treatment: Marine finish
- Colour of Rope: White (others colours on request)

- Approx. Spec Density 0,975 floating
- Melting Point: 145
- Abrasion Resistance: Excellent
- U.V.resistance: Good
- Temperature resistance: 70°C max continuous
- Chemical resistance Excellent

- Wateruptake: n.a
- Dry & wet conditions: Wet strength equals dry strength
- Range of use Offshore installation mooring





DeepRope® Dyneema® mooring line; Strength table (size in mm)

Diam mm	MBL		Weight Kg/m	Stiffness	
	tf	kN		EA [tf]	EA[kN]
81	372	3649	3,30	2,07E+04	2,03E+05
87	447	4379	3,83	2,48E+04	2,43E+05
93	521	5108	4,34	2,89E+04	2,84E+05
98	596	5838	4,85	3,31E+04	3,24E+05
103	670	6568	5,35	3,72E+04	3,65E+05
108	745	7298	5,85	4,13E+04	4,05E+05
113	819	8027	6,34	4,55E+04	4,46E+05
117	894	8757	6,83	4,96E+04	4,87E+05
121	968	9487	7,32	5,37E+04	5,27E+05
125	1043	10217	7,80	5,79E+04	5,68E+05
129	1117	10946	8,28	6,20E+04	6,08E+05
133	1191	11676	8,76	6,61E+04	6,49E+05
137	1266	12406	9,24	7,03E+04	6,89E+05
140	1340	13136	9,72	7,44E+04	7,30E+05
144	1415	13865	10,2	7,85E+04	7,70E+05
147	1489	14595	10,7	8,27E+04	8,11E+05
150	1564	15325	11,1	8,68E+04	8,51E+05
154	1638	16055	11,6	9,09E+04	8,92E+05
157	1713	16784	12,1	9,51E+04	9,32E+05
160	1787	17514	12,5	9,92E+04	9,73E+05
163	1862	18244	13,0	1,03E+05	1,01E+06
166	1936	18974	13,5	1,07E+05	1,05E+06
169	2011	19703	13,9	1,12E+05	1,09E+06
171	2085	20433	14,4	1,16E+05	1,14E+06
174	2159	21163	14,9	1,20E+05	1,18E+06
177	2234	21893	15,3	1,24E+05	1,22E+06
180	2308	22622	15,8	1,28E+05	1,26E+06
182	2383	23352	16,3	1,32E+05	1,30E+06
185	2457	24082	16,7	1,36E+05	1,34E+06
187	2532	24812	17,2	1,41E+05	1,38E+06

All measurements conform ISO 2307