Polymix and polymix 2nd

Polymix

Polymix ropes are manufactured from a mixture of extruded high tenacity copolymer fibre and high tenacity polyester fibre. The production process - applying polyester fibre to the outside of the strand yarns - ensures an excellent external abrasion resistance and internal heat-friction resistance. The combination gives exceptional resistance to cyclic loading.
The relative density of the rope is ±1,1. This means that the rope has neutral buoyancy in sea water. Fibres do not absorb water and remain flexible when wet. Rope has the same breaking strength dry and wet.

Polymix 2nd

Polymix 2nd rope range is manufactured using improved extrusion technology for the copolymer fibres in combination with the use of new grades of polyester fibre and special rope yarn finish.

- High breaking strength
- Easy to handle and splice
- Torque free
- Neutral buoyancy
- Outstanding resistance to abrasion, cyclic loading and internal fusion damage
- Conforms to OCIMF/Intertanko guidelines

Construction

Available in 8-strand multi-plait

12-strand plaited on request
Other sizes and constructions on request

Standard colour

White

Properties

Relative density	1,1
Temperature resistance	High resistance to heat generated by friction Melting point 170°C (Polyester 260°C)
UV resistance	Excellent
Extension	Breaking stretch of about 21% when new - Recovery after load is good and stretch is even
Flexibility	Superior handling characteristics, fibres do not absorb water and remain flexible when wet
Chemical resistance	Excellent except in the presence of alkalis

Length measured under reference tension according to EN ISO 9554

Typical applications

Mooring - Mooring and towing springs - Single point mooring - Tension winch mooring

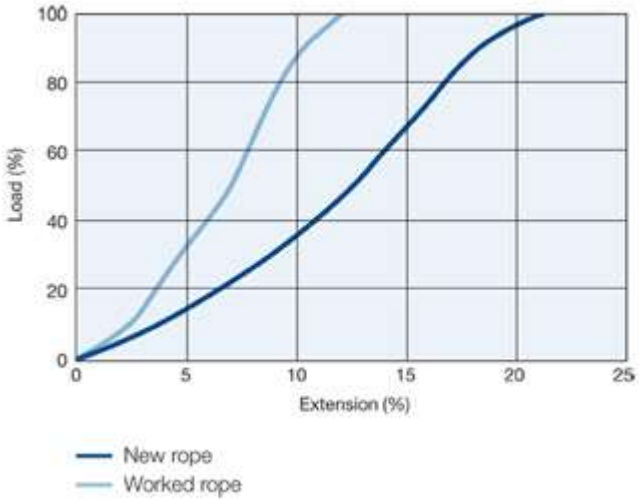
Polymix 8-strand

Diam. Ø	Circ./	Mass	Min. breaking load	
mm	inch "	kg/100m	T	kN
32	4	68,5	30,6	300
36	4 ½	79,5	35,2	345
40	5	96,6	42,5	417
44	5 ½	112	49,1	482
48	6	128	55,7	546
52	6 ½	149	64,2	630
56	7	169	72,7	713
60	7 ½	190	81,1	795
64	8	211	90,3	886
68	8 ½	246	105	1025
72	9	267	113	1106
76	9 ½	315	134	1314
80	10	348	148	1447
88	11	415	175	1718
96	12	489	205	2013
104	13	563	235	2307
112	14	646	269	2638
120	15	725	301	2950
128	16	821	339	3328
136	17	920	379	3721
144	18	1011	416	4080
152	19	1239	464	4549
160	20	1239	507	4969

Polymix 2nd 8-strand

Diam. Ø	Circ./	Mass	Min. breaking load	
mm	inch "	kg/100m	T	kN
40	5	98	42,5	417
44	5 ½	119	50,6	496
48	6	141	57,5	564
52	6 ½	166	68,9	676
56	7	192	80,4	788
60	7 ½	221	92	902
64	8	251	104	1020
68	8 ½	283	115	1130
72	9	318	126	1240
76	9 ½	354	144	1412
80	10	392	160	1569
88	11	475	192	1883
96	12	565	224	2197
104	13	663	267	2618
112	14	769	307	3011
120	15	883	351	3442

Load VS Extension


100
80
60
40
20
0
Load (%)
0
5
10
15
20
25
Extension (%)
New rope
Worked rope