

HMPE USD 8



Construction

Plaited ropes of the HMPELINE range are well-established in marine and off-shore applications, because of their ease in handling and non-rotating behaviour. They are produced on a plaiting machine containing eight reels, each containing one strand, groups of two reels interweave as a pair around the other pairs of reels to produce an eight strands rope of a somewhat square cross section.

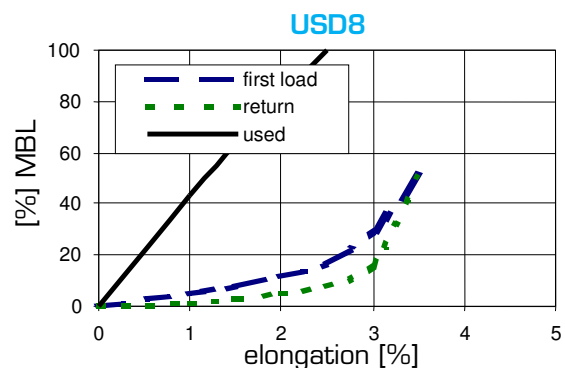
Material Properties

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

➤	Materials	Ultra – High Molecular Weight Polyethylene (Dyneema SK75)
➤	Construction	8 strand plaited
➤	Treatment	Marine finish
➤	Colour of Rope	White (others on request)
➤	Approx. Spec. Density	0,975 floating
➤	Melting point	145°C
➤	Abrasion Resistance	Excellent
➤	U.V. resistance	Good
➤	Temperature resistance	70°C max continuous
➤	Chemical resistance	Excellent
➤	Dry & wet conditions	Wet strength equals dry strength
➤	Range of use	Fishing, off-shore installation, mooring
➤	Coil length	220m
➤	Spliced strength	± 10% lower
➤	Weight and length tolerance	± 5%
➤	Diameter	± 2%

dia mm	circ. "	Min Break Load		weight	
		tf	kN	kg/100 m	kg/coil
22	2 3/4	49,5	486	26,7	49,4
24	3	60,7	595	33,1	58,8
26	3 1/4	66,5	652	36,4	72,8
28	3 1/2	75,4	740	41,8	80,1
30	3 3/4	85,4	838	47,6	92,0
32	4	105	1029	60,2	105
36	4 1/2	123	1211	74,3	132
40	5	148	1447	89,9	163
44	5 1/2	171	1680	107	198
48	6	199	1953	126	235
52	6 1/2	226	2219	146	276
56	7	259	2538	167	320
60	7 1/2	289	2831	190	368
64	8	320	3139	215	418
68	8 1/2	354	3470	241	472
72	9	388	3806	268	530
76	9 1/2	427	4188	297	590
80	10	499	4896	360	654
88	11	576	5650	428	791
96	12	645	6325	502	942
104	13	740	7263	582	1280
112	14	838	8220	668	1470
120	15	941	9231	760	1672
128	16	1050	10297	858	1888
136	17	1164	11417	962	2117
144	18	1283	12590	1072	2358
152	19	1408	13817	1188	2613
160	20	1539	15096	1310	2881



MBL = **M**inimum **B**reaking **L**oad conform ISO 2307

Other sizes available upon request

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