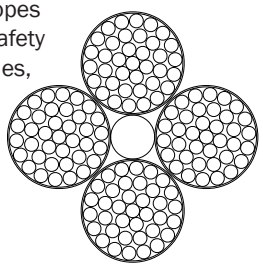
PHILLYSTRAN HMPE - Reduced Recoil Mooring Ropes

After years of design cooperation with the US Navy, Phillystran co-engineered the HMPE (high modulus polyethylene) fiber ropes with sequential break technology which reduces the rope's recoil if overloaded to the point of break[1]. This is an important safety feature which is mandated on many US Navy ships. These ropes have been specifically designed for mooring lines, head lines, breast lines, or any application requiring ropes that are tough, light, easy to handle and splice – with safety in mind. HMPE ropes consist of four HMPE fiber strands around an independent synthetic core. Each strand is individually jacketed with alternating aramid and polyester yarns for excellent abrasion resistance.



Features:	Reduced Recoil Design
Strength Bearing Fiber:	HMPE (Dyneema®)
Construction:	4 strands - individually jacketed
Standard Jacket:	Multiplex Aramid / Polyester mix*
Specific Gravity:	1.10**
Performance in Water:	Wet strength equals dry
Resistance to Chemicals, UV, Bending, Abrasion:	Excellent
Typical Applications:	Mooring, Towing
Typical Markets:	Navy, Coast Guard, Commercial Marine

*Alternative jacket fibers available
** Floating option is available

PART NUMBER	BREAK STRENGTH lb	BREAK STRENGTH kN	DIAMETER in	DIAMETER mm	WEIGHT lb/100 ft	WEIGHT kg/km
HMPE 100	100,000	445	1-5/16	33	38	57
HMPE 140	140,000	623	1-1/2	38	48	71
HMPE 180	180,000	801	1-3/4	44	57	86
HMPE 230	230,000	1,023	2	51	70	104
HMPE 300	300,000	1,334	2-1/4	57	87	130
HMPE 360	360,000	1,601	2-3/8	60	105	156
HMPE 405	405,000	1,802	2-5/8	67	120	179
HMPE 510	510,000	2,269	2-3/4	70	160	238
HMPE 660	660,000	2,936	3-1/4	82	200	298

	Length	NSN#
HMPE 300	200'	4020-01-576-9128
HMPE 300	400'	4020-01-576-9216

Phillystran HMPE rope meets Commercial Item Description (CID) A-A-59811 Specification
In accordance with Cordage Institute Publication: CI 1502, CI 1904
Weights and dimensions can vary
Dyneema® is a Registered Trademark of DSM B.V.
Kevlar® is a Registered Trademark of Dupont
Twaron® is a Registered Trademark of Teijin Twaron B.V. LTD
[1]See CI 1502 for effective lengths

CAUTION:
Break Strength: The breaking strength of a rope is the load at which a new rope will break when tested under laboratory conditions. Break strength should not be mistaken for safe working load. **Safe Working Load:** Because of the wide range of rope use, rope condition and the degree of risk of life or property, it is not possible to make a blanket recommendation for safe working load. It is ultimately dependent on the rope user to determine what percentage of break strength is their own safe working load. **Wear:** Ropes wear out with use; the more severe the usage, the greater the wear. It is often not possible to detect wear on a rope by visible signs alone. Therefore, it is recommended that the rope user determine a retirement criteria for ropes in their application. For assistance in developing safe working load and retirement criteria for each application please call or write Phillystran.

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