

Comparison Table for Synthetic Fiber Ropes

The main advantage of using Synthetic Fiber Ropes are that they are stronger than Natural Fiber Ropes and not affected by climate or long period of storage. The following comparison table shows the other characteristics of Synthetic Fiber Ropes

Item	Base	Specific Gravity	Suction Rate	Elasticity at Breaking Point	Features
Polyethylene Rope (Monofilament)	Polyethylene	0.95	11%	32%	<ol style="list-style-type: none"> 1. Possible to float 2. Not perish 3. Strong (About 1.5 times of Manila) 4. Light weight about 70% of Manila Rope
Polypropylene Rope (Mono)	Olefin	0.91%	14%	42%	<ol style="list-style-type: none"> 1. Lightest of all the fiber ropes 2. Decay by long & strong sunshines, so to prevent this, can take UV Stabalization 3. Almost same strength as Polyethylene Mono Rope.
Polypropylene Rope (Multifilament)	Olefin	0.91%	17%	44%	<ol style="list-style-type: none"> 1. Very soft and pleasant touch, easy to handle 2. Decay by long & strong sunshines, so to prevent this, can take UV Stabalization 3. Almost same strength as Polyethylene Mono Rope.
Polypropylene Rope (Danline)	Olefin	0.91%	11%	28%	<ol style="list-style-type: none"> 1. High strength against abrasion 2. Decay by long & strong sunshines, so to prevent this, can take UV Stabalization 3. Almost same strength as Polyethylene Mono Rope.
Nylon Rope (Multi)	Polyamid	1.14	17%	52%	<ol style="list-style-type: none"> 1. Most strong in all the synthetic fiber ropes, about 2.8 times of Manila Rope, about 1.5 times of Polypropylene. 2. Not perish 3. Very soft and pleasant touch 4. Light weight about 82% of Manila Rope but about 25% heavier than Polypropylene.
Polyester Rope (Multi)	Polyester	1.38	12%	31%	<ol style="list-style-type: none"> 1. Very strong, but about 24% less than Nylon Rope 2. The highest Anti- Defacement 3. Shorter stretch than Nylon 4. No strength decline in wet 5. About 21% heavier than Nylon. 6. Not perish 7. Very soft and pleasant touch, easy to handle
Vinyon Rope	Polyvinyl Alcohol	1.3	12%	31%	<ol style="list-style-type: none"> 1. Appearance and soft touch like cotton 2. About half strength of Nylon Rope. 3. Easy to handle

(Remark: All Values are approximate.)