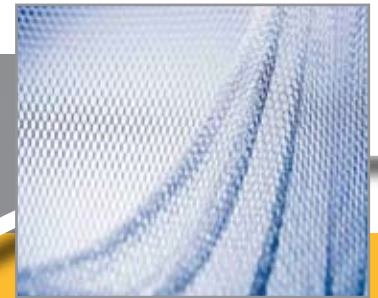


DYNEEMA® NET

Dyneema®, produced by DSM Dyneema (a division of Royal DSM NV, the Netherlands), is a high performance poly-ethylene fiber with almost unlimited applications. The strength of Dyneema® results in a smaller twine diameter and therefore in lighter, stronger, and more efficient nets.

Successful applications of Dyneema® in netting include trawl nets, aquaculture nets, and purse seine nets used in commercial fishing industry, safety nets used in the construction industry, as well as cargo nets used in the transport/logistic sector. The Dyneema® grades used for nets are typically SK75.



RASCHEL MACHINE - FOUR NEEDLES KNOT PRODUCTION

Twine 210/	Twine Nylon Correspondence	Braiding	Weight /1000 mesh* 1m	Breaking Strength	Ratio Breaking Load / Weight	Number of meshes available	
			(kg)	(kg)	(kg)	560	1040
BADYN39	210/30	medium	1,08	39,8	37	x	x
BADYN72	210/66	medium	1,65	72	44	x	x
BADYN86	210/96	medium	2,20	86,4	39	x	x
BADYN103	210/96+	medium	2,53	103,8	41	x	
BADYN109	21/120	medium	2,52	109	43	x	
BADYN152	21/180	medium	3,29	152	46	x	
BADYN196	210/200	medium	4,09	196	48	x	

DOUBLE NEEDLE BAR MACHINE

Twine 210/	Twine Nylon Correspondence	Braiding	Weight /1000 mesh* 1m	Breaking Strength	Ratio Breaking Load / Weight	Number of meshes available
			(kg)	(kg)	(kg)	195
BADYN DN210	210/140	medium	6,87	210	31	x
BADYN DN227	3 mm	medium	7,77	228	29	x
BADYN DN241	210/150	medium	7,84	241	31	x
BADYN DB440	210/240	medium	13,00	440	34	x
BADYN DB580	210/300	medium	16,60	580	35	x



DYNEEMA® NET

High strength, low weight, small diameter

Netting made with Dyneema® is stronger and lighter than any other traditional material used for netting. Its strength allows the use of twines with a smaller diameter. Dyneema® used in a trawl net results in up to 50% thinner twines compared to polyamide of the same wet knot strength. This leads to significantly less drag in water. Considerable weight savings can be achieved for applications on land or in the air (e.g. cargo nets).

Durability

Nets made with Dyneema® do not absorb water and retain their knot strength, compared to knots in nylon netting which lose about 10% to 20% of their dry knot strength when submerged to water. With low elongation of approximately 5% (at breakage) and no shrinkage in water, the mesh size remains stable in normal use of the netting. Nets made with Dyneema® are highly resistant to cutting, tearing, abrasion and UV light, and are unaffected by moisture.

Net constructions

Dyneema® can be used in both single and double knotting and knotless constructions, such as Raschel and Ultracross® netting. The lifetime can be increased by coating the netting.

Aquaculture: providing a safer place to grow

When used in Raschel netting, the Dyneema® fiber for the same mesh breaking strength of nylon twines, results in only up to a third of the weight. This makes them much easier and safer to lift in and out of the water. Nets made with Dyneema® are also extremely durable, have minimal elongation and are highly resistant to most chemicals including salt and sea water. In addition, nets made with Dyneema® have thinner twines, which improves water flow through the cage and increases the net shape stability, all of which contributes to a healthier environment for the fish and a potentially more productive harvest. The lower weight reduces the annual anti-fouling treatment by about half.

Birds Protection

Another application of Dyneema® netting is the manufacturing as a birds protection that in comparison with a Polyethylene netting is much stronger even if they have the same weight and in comparison with an equal tensile strength net by nylon or polyester, it is 3 times lighter.

