

Comparative Survey of Synthetic Fibres.

Material	Properties								
	Brand-name	Tencity Yarn CN/dtex	Specific Weight kg/dm ³	Reduction in Tenacity when wet %	Water Absorption %	Knot Stability %	UV Resilience %	Breaking stretch %	Resistance to Abrasion
Polyamid (PA) 6 und 66	Perlon, Nylon Nylsuisse Enkalon	7-8	1,14	5-10	1-7	60-65	good	16-27	very good
Polyester (PES)	Diolen, Trevira Dacron Tersuisse	7-8,4	1,38	0	0,5-2	55-60	very good	10-16	very good
Polypropylene (PP) Multifil	Hostalen Softlene Leolene	ca. 5	0,91	0	0	55-65	good only when treat	14-24	satisfactory
Plypropylen (PP) high tenacity	Leolene Betelon	ca. 7	0,91	0	0	55-65	good only when treat	12-20	satisfactory
Polyethylen (PE)	Lupolen Vastalen Wetalen	ca. 4,5	0,96	0	0	50-60	good	15-30	satisfactory
Polyethylene (PE) multifil, high tenacity	Dyneema Spectra	28-38	0,96	0	0	35-50	good	3,8	good
Aramid	Twaron, Kevlar Technora	20-25	1,44	0	2-5	30-40	poor	2-4	unsatisfactory
LCP	Vectran	22-25	1,41	0	1	30-35	poor	3,3	good
PBO	Zylon	ca. 37	1,52	0	0,6	35-55	poor	2,5	satisfactory