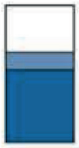
Comparing summary of synthetic fibres

	Material							
	Polyamide (PA) 6 und 6.6	Polyester (PES)	Polypropylene (PP) multifilament highly resilient	Polyethylene (PE)	Polyethylene highly resilient (HMPE)	Aramid	LCP	PBO
Brand-name	Perlon Nylon	Diolen Dacron			Dyneema® Spectra	Twaron Kevlar Technora	Vectran	Zylon
Tenacity of yarn CN/dtex	 7 – 8	 7 – 8,4	 app. 7	 app. 4,5	 28 – 38	 20 – 25	 22 – 25	 app. 37
Specific gravity kg/dm³	 1,14	 1,38	 0,91	 0,96	 0,96	 1,44	 1,41	 1,52
Tenacity-reduction through humidity %	 5 – 10	0	0	0	0	0	0	0
Water absorption %	 1 – 7	 0,5 – 2	0	0	0	 2 – 5	 1	 0,6
Knot tenacity %	 60 – 65	 55 – 60	 55 - 65	 50 – 60	 35 – 50	 30 – 40	 30 – 35	 35 – 55
Light resistance %	 good	 very good	 only good when equipped	 good	 good	 bad	 bad	 bad
Breaking stretching %	 16 – 27	 10 – 16	 12 – 20	 15 – 30	 3,8	 2 – 4	 3,3	 2,5
Resistance to abrasion	very good	very good	fair	fair	good	adequate	good	bad