

## Technical properties of available raw materials

	<b>UHMWPE</b> Ultra High Molecular Weight Polyethylene	<b>Aramid</b> Aromatic Nylon	<b>PES</b> Polyester	<b>NY</b> Nylon	<b>PP</b> Polypropylene
<b>Typical Marketing Term</b>	Dyneema*	Technora*/ Twaron*/ Kevlar*	PES	NY	PP
<b>Strength (daN/mm<sup>2</sup>)</b>	345	300	110	81	52
<b>Specific weight (g/cm<sup>3</sup>)</b>	0.97	1.4	1.4	1.14	0.91
<b>Water intake (%)</b>	0	2	<0.5	4 – 6	0
<b>UV-resistance</b>	good	limited	very well	average	good
<b>Elongation (%)</b>	3.5	3.5	10 – 16	20 – 25	18 – 22
<b>Abrasion resistance (dry)</b>	very good	good	good	very good	sufficient
<b>Abrasion resistance (wet)</b>	very good	good	very good	good	good
<b>Creep</b>	at high loads	almost not measurable	almost not measurable	low	at high loads
<b>Melting temp. (°C)</b>	140	charred at 500	260	230	165