

# OUR FIBRE GUIDE

	HMPE	Vectran	Kevlar	Polyester	Nylon-6	PP Multifilament
Tenacity in g/den	35	23-26	22-28	9	8-9	5-7
Elongation at Break	3.80%	3.30%	3.15-3.85%	10-17%	18-24%	13-17%
Specific Gravity in g/cm <sup>3</sup>	0.97	1.4	1.44-1.45	1.38	1.14	0.91
Melting Point in ° C	140°	330°	Carbonisation at 500°	265°	215°	165°
Resistance to short-term heat in ° C	80°	200°	260°	170°	130°	80°
UV-Resistance	excellent	limited	limited	excellent	good	sufficient
Resistance to Alkalis	excellent	excellent	predominantly good	good at room temperature	good at low concentrations	excellent to most
Resistance to Acids	excellent	excellent	predominantly good	predominantly good	predominantly good	excellent
Resistance to Petroleum Based Products	excellent	excellent	excellent	excellent	good	excellent
Creep	creeps at high loads	immeasurable	hardly measurable	hardly measurable	slight creep under load	creeps at high loads