

Guide to Fibre Properties

General Characteristics

Fibre	Trade Name	Colour	Tensile strength (N/50mm ²)	Tensile elongation (%)	Compressive strength (N/50mm ²)	Max. usage temp. (°C)	Supports Carboniser
PP	Monodora	White	2.57	45	20	120	Yes
PP	Polymat	White	1.54	65	100	120	Yes
PE	Polymat	White	1.38	60	100	160	Yes
PA6	Acubel	Cream	1.15	20	110	130	Yes
PA6	Acubel	Cream	1.15	20	130	140	Yes
PPS	Polymat	White	1.37	35	100	150	No
PPS	Polymat	White	1.38	30	200	240	No
PPS	Polymat	White	1.41	25	210	240	No
PPS	Polymat	Dark brown	2.3	18	200	250	No

Chemical Resistance

Fibre	Strong acids	Weak acids	Strong alkalis	Weak alkalis	Solvents	Oxidising agents	Hydrolytic
PP	++++	++++	++++	++++	++++	++	++++
PP	++	++	++	++	++	++	++
PE	++	++	++	++	++	++	++
PA6	++	++	++	++	++	++	++
PA6	++	++	++	++	++	++	++
PPS	++	++	++	++	++	++	++
PPS	++	++	++	++	++	++	++
PPS	++	++	++	++	++	++	++
PPS	++	++	++	++	++	++	++
PPS	++	++	++	++	++	++	++



Poor



Fair



Good



Very Good



* The above information is based on general fibre manufacturers's values and this is for guidance only . In some case the performance of this materials can be improved with the use of special or chemical finishes.