

## GLASS FIBRE

Glass fibre is used to produce advanced structural materials in which different components are integrated to create a material with superior mechanical characteristics.

It is widely used in the aerospace, nautical and automotive sectors, associated with varying matrices, for example epoxy, but always with synthetic resins.

Weight	Style	Weave	Weight rate Warp/weft	Fiber count Yarns/cm	Fiber count Picks/cm	Std width cm	Thickness mm
105	120	4H Satin	51/49	24	23	120	0.08
202	1035	Twill 2x2	50/50	14	14	120	0.15
162	1039	Twill 2x2	51/49	11.8	11.5	100	0.12
300	1102	Twill 2x2	50/50	7	7	80	0.23
390	1113	Twill 2x2	53/47	5.9	6.6	100/125	0.3
125	1522	Plain	53/47	9.6	8.5	65/80	0.09

## SPECIAL GLASS FIBRES

Weight	Style	Weave	Weight rate Warp/weft	Fiber count Yarns/cm	Fiber count Picks/cm	Std width cm	Thickness mm
500	20320	Plain	50/50	3.8	3.8	100	0.4
205	20741	Plain	59/41	6	4.2	100	0.16
100	20991	Plain	50/50	4.1	4.1	100	0.08

## KEVLAR

Kevlar is a light fibre which is heat resistant and, weight for weight, more resistant than steel. Given its strength and lightness, it is used to make equipment for extreme sports, bulletproof vests and the structure of racing cars.

Weight	Style	Weave	Weight rate Warp/weft	Fiber count Yarns/cm	Fiber count Picks/cm	Std width cm	Thickness mm
175	20967	Plain	51/49	6.7	6.5	100	0.2
175	20968	Twill 2x2	51/49	6.7	6.5	100	0.2
175	20914	4H Satin	51/49	6.7	6.5	100	0.2

## CARBON FIBRE

Carbon fibre is mainly used to reinforce composite materials. Its characteristics include: good thermal insulation, resistance to chemical agents, dimensional stability under temperature variation and good flame resistance.

Weight	Style	Weave	Weight rate Warp/weft	Fiber count Yarns/cm	Fiber count Picks/cm	Std width cm	Thickness mm
200	43199	Plain 3K	50/50	5	5	125	0.2
200	43200	Twill 2x2 3K	50/50	5	5	125	0.2
385	48385	Twill 2x2 12K	50/50	2.4	2.4	130	0.4
600	48600	Twill 2x2 12K	50/50	3.7	3.7	130	0.62

## MULTIAXIAL CARBON FIBRE

Weight	Style	Fiber Orientation	Ply areal weight g/m <sup>2</sup>	Reinforcement yarn	Stitching g/m <sup>2</sup>	Std width cm	Thickness mm
400	MBBOO XA	+45°/-45°	205	HR 12K	6	127	/
600	MBBOO HR	+45°/-45°	297	HR 12K	6	127	/
200	NLTOO	0°/90°	100	HR CARBON	6	127	0.2
200	NBBOO	+/-45°	100	HR CARBON	6	127	0.2