

## BIDIRECTIONAL CARBON FIBER FABRIC

Bidirectional carbon fiber fabric is a term often used to refer to a type of carbon fiber fabric that has fibers oriented in two main directions: the warp and weft directions. The bidirectional nature of the fabric provides balanced strength and stiffness in both the warp and weft directions. This makes it ideal for applications where equal strength is required in multiple directions.

Plain weave and twill weave are two common patterns used in the manufacturing of carbon fiber fabric. Plain weave carbon fiber fabric is made by interlacing carbon fibers in a simple over-under pattern, forming a grid-like structure. And Twill weave carbon fiber fabric is made by interlacing carbon fibers in a diagonal pattern, creating a distinctive "twill line" appearance.

### Product Data Sheet:

Style	Reinforcement Yarn		Weave Pattern	Fiber Count (10mm)		Weight (GSM)	Thickness (mm)	Width (mm)
	Warp	Weft		Warp	Weft			
AJP-1KC120	1K	1K	Plain	9	9	120	0.12	100-1500
AJT-1KC120	1K	1K	Twill	9	9	120	0.12	100-1500
AJP-1KC140	1K	1K	Plain	10.5	10.5	140	0.14	100-1500
AJT-1KC140	1K	1K	Twill	10.5	10.5	140	0.14	100-1500
AJP-3KC160	3K	3K	Plain	4	4	160	0.16	100-1500
AJT-3KC160	3K	3K	Twill	4	4	160	0.16	100-1500
AJP-3KC180	3K	3K	Plain	4.5	4.5	180	0.18	100-1500
AJT-3KC180	3K	3K	Twill	4.5	4.5	180	0.18	100-1500
AJP-3KC200	3K	3K	Plain	5	5	200	0.2	100-1500
AJT-3KC200	3K	3K	Twill	5	5	200	0.2	100-1500
AJP-3KC220	3K	3K	Plain	5.5	5.5	220	0.22	100-1500
AJT-3KC220	3K	3K	Twill	5.5	5.5	220	0.22	100-1500
AJP-3KC240	3K	3K	Plain	6	6	240	0.24	100-1500
AJT-3KC240	3K	3K	Twill	6	6	240	0.24	100-1500
AJP-6KC280	6K	6K	Plain	3.5	3.5	280	0.28	100-1500
AJT-6KC280	6K	6K	Twill	3.5	3.5	280	0.28	100-1500
AJP-6KC320	6K	6K	Plain	4	4	320	0.32	100-1500

AJT-6KC320	6K	6K	Twill	4	4	320	0.32	100-1500
AJP-6KC360	6K	6K	Plain	4.5	4.5	360	0.36	100-1500
AJT-6KC360	6K	6K	Twill	4.5	4.5	360	0.36	100-1500
AJP-12KC320	12K	12K	Plain	2	2	320	0.32	100-1500
AJT-12KC320	12K	12K	Twill	2	2	320	0.32	100-1500
AJP-12KC400	12K	12K	Plain	2.5	2.5	400	0.4	100-1500
AJT-12KC400	12K	12K	Twill	2.5	2.5	400	0.4	100-1500
AJP-12KC480	12K	12K	Plain	3	3	480	0.48	100-1500
AJT-12KC480	12K	12K	Twill	3	3	480	0.48	100-1500
AJP-12KC560	12K	12K	Plain	3.5	3.5	560	0.56	100-1500
AJT-12KC560	12K	12K	Twill	3.5	3.5	560	0.56	100-1500
AJP-12KC640	12K	12K	Plain	4	4	640	0.64	100-1500
AJT-12KC640	12K	12K	Twill	4	4	640	0.64	100-1500

