

MULTIAXIAL CARBON FIBER FABRIC

Multiaxial carbon fiber fabric is another type of composite material that incorporates carbon fiber yarn, but with fibers oriented in multiple directions.

The fabric is constructed by combining carbon fiber layers or unidirectional tapes, each oriented in a specific direction, and stitching or bonding them together. The fiber orientations can vary, with common configurations including 0°, 90°, ±45°, and even more complex combinations. This arrangement provides tailored reinforcement properties in different directions, enabling engineers to optimize the material for specific load requirements.

Technical Data Sheet:

DRY FIBER PROPERTIES

TENSILE STRENGTH:	≥4900 MPA	TENSILE MODULUS:	≥230 GPa
ELONGATION:	≥2.1%	YARN TYPE:	12k Carbon Fiber
FABRIC PROPERTIES (Biaxial)			
WEIGHT:	200 GSM	WIDTH:	1270 MM
CONSTRUCTION	AREA WEIGHT	LENGTH:	50m 100m
+45°	100 GSM	STITCH FIBER	7 GSM
-45°	100 GSM	*TOLERANCE	±5%

COMMENTS: We do customized production as per projects requirement. Customized packing are also available.

