

Carbon fiber unidirectional fabric

Planar Reinforcement / SC-4F4A36E3A516

PRODUCT OVERVIEW

Carbon fiber unidirectional fabric is the core reinforcing material for carbon fiber composites, crafted by tightly arranging continuous carbon fibers along a single direction (warp direction), while the weft direction is stabilized through sparse interlacing with fine fibers or yarns. Its primary function is to deliver exceptional tensile strength and modulus in the direction of applied force, while simultaneously enabling lightweight product designs. As such, it serves as a critical foundational material for high-performance components in fields like aerospace and advanced equipment manufacturing.

CONFIGURATION DATA

MATERIAL FAMILY	Carbon fibre
SUPPLY FORM	Fabric
ARCHITECTURE / WEAVE	Unidirectional
DIMENSIONS / TOLERANCES	Configured to project requirements in SI / metric units
TECHNICAL DOCUMENTATION	Lot- and configuration-specific documentation available with quotation
AVAILABILITY	Made to order / project supply

DOCUMENTATION & COMPLIANCE

ISO, REACH, RoHS and material certificates are confirmed per selected grade, manufacturer, lot and intended application.