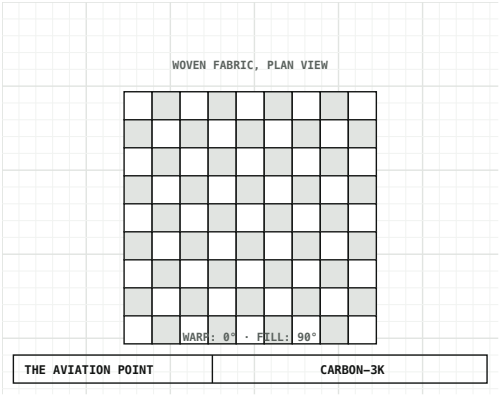
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3K carbon fabric — woven carbon fabric

3K means 3,000 filaments per tow.



Schematic

Designation

Item	Value
Designation	3K carbon fabric
Class	Composites
Type	woven carbon fabric

3K carbon fabric data

Property	HexForce 282	HexForce 284
Weave	Plain	2/2 twill
Weight, oz/yd² (g/m²)	5.80 (197)	5.80 (197)
Dry thickness	10.10 mil (0.26 mm)	9.1 mil (0.23 mm)
Count, warp × fill per in	12 × 12	12 × 12
Fiber	3K carbon, 33 MSI	3K carbon, 33 MSI

Hexcel HexForce 282 and 284 data sheets, as already used on the carbon and aramid page.

Same fabrics as 8552 epoxy prepreg: typical physical properties

Property	Carbon fabrics
Resin content	32–42%
Flow	8–22%
Volatiles	1.5% max
Gel time at 350 °F	12–22 min

HexPly 8552 data sheet, US units, 2020. Cure 350 °F (see the prepreg page).

Notes

- **Dry fabric weights, not ply thickness.**
- **One manufacturer's data.**
- **SRM first.** Ply count and orientation come from the repair manual.

SOURCES · Hexcel HexForce Style 282 Carbon Fabric Product Data · Hexcel HexForce Style 284 Carbon Fabric Product Data · Hexcel HexPly 8552 Product Data Sheet · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 7

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/carbon-3k/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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