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3K Carbon Fabrics

3K means 3,000 filaments per tow.

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

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

Key points

- **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

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Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.