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# Vinyl Ester Resin

Vinyl ester handles and cures like polyester, but the FAA handbook says its corrosion resistance and mechanical properties are much improved over standard polyester composites.

## Vinyl ester facts

| Item | What the source says | Source |
|---|---|---|
| Handling and cure | Appearance, handling properties and curing characteristics the same as conventional polyester | FAA-H-8083-31B, p. 7-6 |
| Against polyester | Corrosion resistance and mechanical properties much improved | FAA-H-8083-31B, p. 7-6 |
| Fiber compatibility | T700S sizing F0E (0.6%): vinyl ester, compatible with epoxy; sizing 50C also suits vinyl ester | Toray T700S data sheet |
| Fiber compatibility | T800S sizing 50C: epoxy, phenolic, polyester, vinyl ester | Toray T800S data sheet |

## Key points

- **No data table.** Resin maker’s sheet governs.

**SOURCES** · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 7 · Toray Composite Materials America, TORAYCA T700S Standard Modulus Carbon Fiber Data Sheet · Toray Composite Materials America, TORAYCA T800S Intermediate Modulus Carbon Fiber Data Sheet

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