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Polyester Resin

Polyester is the inexpensive, fast-processing resin.

Polyester resin facts

Item	What the source says	Source
Cost and speed	Relatively inexpensive, fast processing, used for low-cost applications	FAA-H-8083-31B, p. 7-6
Aircraft grade	Low-smoke polyester resins for interior parts	FAA-H-8083-31B, p. 7-6
Processes	Matched metal molding, wet layup, press (vacuum bag) molding, injection molding, filament winding, pultrusion, autoclaving	FAA-H-8083-31B, p. 7-6
Fiber sizing	T700S sizing 50C suits epoxy, phenolic, polyester and vinyl ester	Toray T700S data sheet
Cure speed against epoxy	Epoxy processing and curing is slower than polyester	FAA-H-8083-31B, p. 7-7

Key points

- **No structural data here.**
- **Not a repair resin for epoxy parts.** A repair keeps the resin family the part was built with.

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

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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.