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Polyester resin — thermoset resin

Polyester is the inexpensive, fast-processing resin.

Designation

Item	Value
Designation	Polyester resin
Class	Composites
Type	thermoset 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

The FAA handbook gives no strength, modulus or temperature figures for polyester, so none are shown. A resin data sheet from the maker carries them.

Notes

- **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

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/materials/polyester-resin/

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

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