

TECHNICAL DATA SHEET

Carbon Fiber Prepreg - WP-L5100 System

UD and woven carbon prepreg supply reference

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Carbon fiber reinforcement pre-impregnated with a controlled WP-L5100 epoxy resin system. Available constructions require confirmation of reinforcement, dry fiber weight, resin content, width, cure process and storage conditions before quotation.

RESIN WP-L5100 epoxy	FORM UD / woven	WIDTH 1000 mm reference	STORAGE -18 C reference
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REPRESENTATIVE PREPREG RANGE

Construction	Dry fiber weight	Resin content	Approx. total weight
UD carbon	30-250 g/m2	33-55% by grade	67-373 g/m2
3K plain / twill	200 g/m2	40%	333 g/m2
6K plain / twill / satin	320-400 g/m2	40%	533-667 g/m2
12K plain / twill	400-480 g/m2	40%	667-800 g/m2

RESIN AND PROCESS REFERENCE

Item	Condition	Reference value
Viscosity	70 C	17,500-23,500 mPa.s
Viscosity	80 C	6,500-8,500 mPa.s
Gel time	120 C	340 s
Glass transition temperature	Cured reference	>120 C; cure-dependent
Fast cure reference	150 C	10 min
Unopened room-temperature life	25 C	Approx. 3 weeks
Long-term frozen storage	-18 C	Approx. 4 months

TYPICAL APPLICATIONS

Compression molding • Autoclave molding • Sporting goods • Bicycle components • Marine components • Industrial composite parts

HANDLING AND QUOTATION NOTES

- Keep sealed during thawing and open only after reaching room temperature to reduce condensation risk.
- Control cumulative room-temperature exposure and use FIFO management.
- Actual cure cycle, pressure, vacuum, demolding and post-cure must be validated for the part and tooling.
- Request the applicable resin SDS before production use.

Data basis: Prepared from the local WP-L5100 carbon fiber prepreg technical record dated 2026-06-09. Cure, storage and property values remain reference data and require batch and process confirmation.

The values in this sheet are typical or nominal reference values, not a batch certificate or finished-laminate design allowables. Final specification, tolerances, test methods, resin compatibility, compliance review and COA requirements must be confirmed in the quotation and order documents.