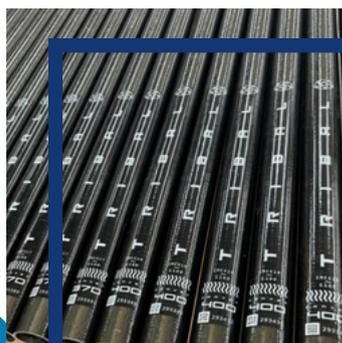




TOWPREG

CST Towpreg's are a culmination of years of testing plus an overall desire to better control the quality of our own finished carbon fiber reinforced polymer products.



CONTACT US

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OUR TOWPREG'S



CST's towpreg has evolved from our development of medal-winning skiff masts, including Olympic sailing classes. Our products are rigorously tested for strength on finished tubes and pressure vessels – see below for details.

Our towpreg can be used on filament winding machines, fibre placement robots, or any machine or process that can hold 3" ID cardboard bobbin cores, up to 8" in outer bobbin diameter (12lb total net weight).



Applications of towpreg include pressure vessels, tanks, rotor sleeves, rocket bodies, sporting goods, wind energy, infrastructure, or any product requiring high quality, high throughput, and higher levels of health and safety compliance.

CST's towpreg comes in a variety of engineered materials, including standard modulus carbon fiber (12K or 24K), E-glass (1200-2400 tex), S2-glass and aramid*, and a range of available resins with properties tailored to your needs:



- Temperature resistance (high Tg)
- Low cure temperature
- Toughness
- Resin flow characteristics
- UV stability
- Chemical resistance
- Pigments
- Fire retardancy

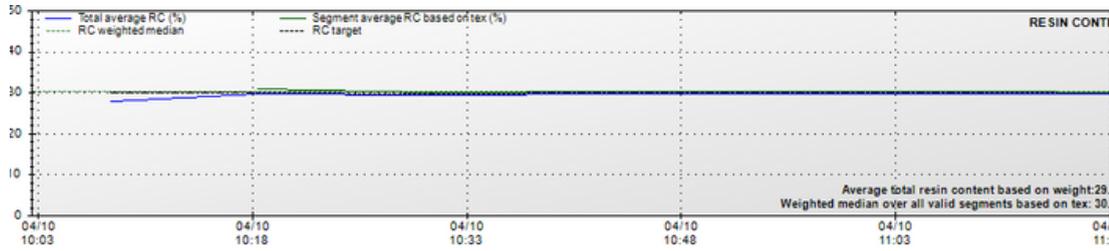
*other fibres available upon request

CST TOWPREG RANGE

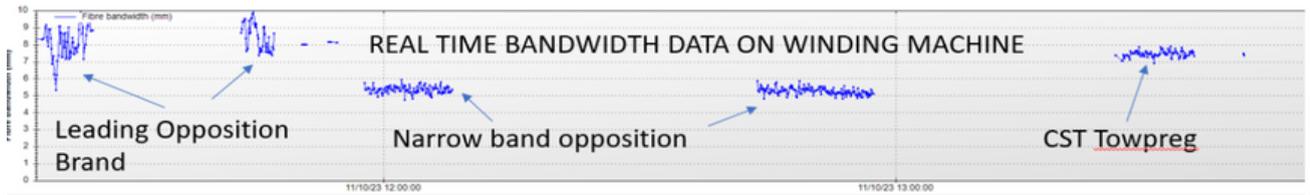
Resin system	CST code	T _g (°C) DSC
Standard system	CTP-MA-1723	122
UV resistant system	CTP-MA-1717	128
Fire retardant system	CTP-MA-1694	134
High temperature system	CTP-MA-1726	174
Flow-modified (toughened)	CTP-MA-1732	130
Flow-modified (toughened) – less bleed out	CTP-MA-1736	122

BENEFITS OF CST TOWPREG:

1. **Continuous monitoring of resin content during production** to ensure highest quality product. Supplied certified within tolerance ($\pm 1.0\%$).



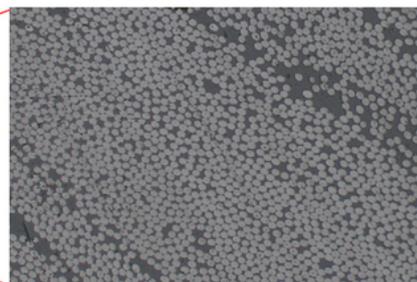
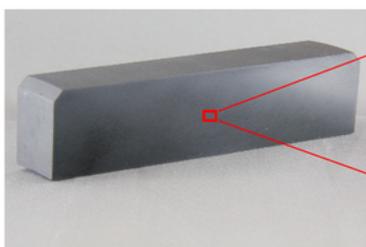
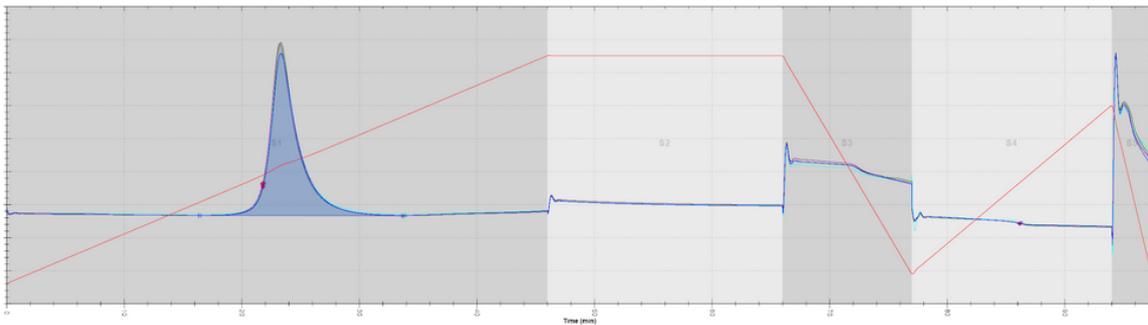
2. All towpreg products are supplied **100% checked for bandwidth by continuous monitoring during production** to ensure highest quality.



3. Extremely high winding throughput compared to wet-winding.
4. Minimised exposure to chemicals.
5. Minimise the need for operator intervention.
6. Can be adjusted for customers' needs e.g. resin systems, fibre, bandwidth etc.
7. Long outlife (can be stored at room temperature for up to 3 months).
8. Eliminate setup and clean down time associated with wet-bath filament winding.
9. Minimal resin transfer to rollers.
10. Can be made to demand,

TESTING

All of our resin systems are tested in our on-site laboratory - both raw materials receipt testing, as well as product batch testing. The outcome is fully certified materials, meaning more consistent products.





From its inception, CST Composites, has focused on the design and manufacture of cost effective, high quality, filament wound tubing to service marine, industrial and high-tech markets.

The strength of CST lies with its unique filament winding technology which has been developed and evolving since day one. Today the company runs fourteen filament winding machines and three pultrusion machines giving a production capacity capability of more than 100 tonnes of composite per year. CST is the largest user of carbon tow in Australia and New Zealand. Our products are exported worldwide with significant markets in Europe, USA, China and Asia.

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