

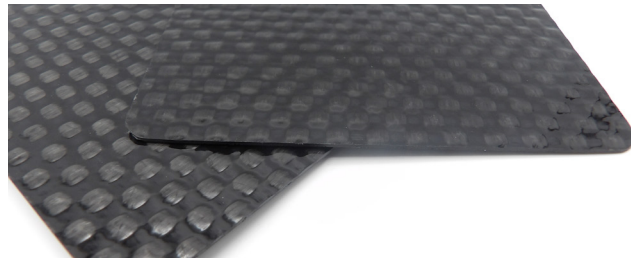
PRODUCT DATA SHEET

DESCRIPTION

Toray PMC CFRT® (BW-1000/Reemay) is a reinforced thermoplastic composite laminate. It blends the benefits of a thermoplastic polymer matrix with woven carbon and glass fibers in a basket weave for enhanced shapes and performance. The BW-1000/Reemay style laminate is available in a dual-layer product; carbon in one direction and glass fibers in at a 90° orientation to carbon laminated over a layer of polyester fiber. The BW-1000/Reemay laminate is thin, lightweight, and resilient for improved energy return.

FEATURES

- › Basket weave of carbon and glass fibers
- › Bi-directional reinforcement with additional polyester fiber layer
- › Lightweight, thin, dual-layer
- › Available in various colors



PRODUCT TYPE AND COMPOSITION

Carbon fiber content: 22%
Glass fiber content: 22%
Polyester fiber content: 9%
Modified PMMA thermoplastic resin: 47%
(Noted: Percentages are by volume and are nominal values)

TYPICAL APPLICATIONS

- › Footwear
- › Recreational equipment
- › Skates

SHELF LIFE

Stable indefinitely at 25°C (77°F)

Materials must be dried prior to heating and thermoforming.
Please refer to the TPMC Processing Instructions.

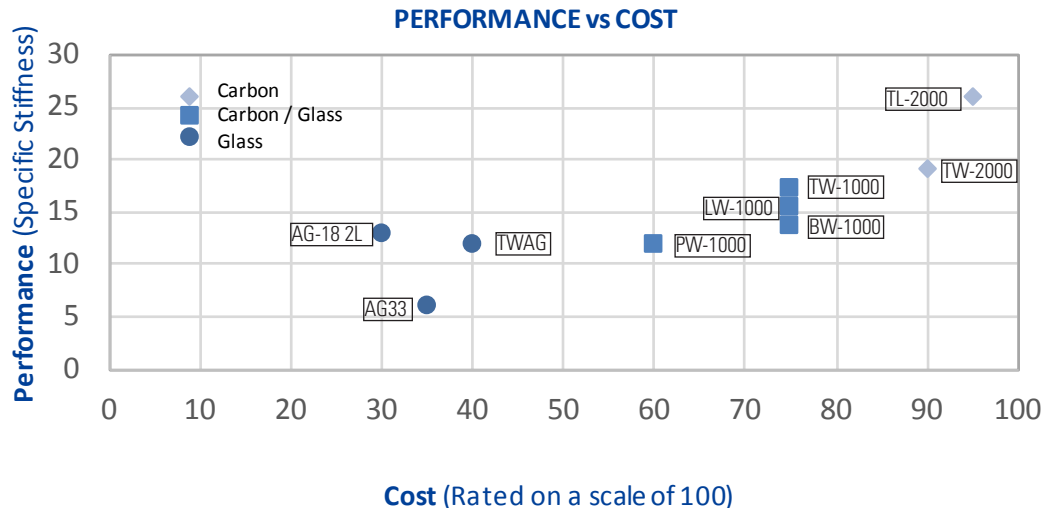
MATERIAL PARAMETERS

Specific Gravity	1.6 ± 15% (calculated based upon material volume)
Thickness	1.20 mm (± 0.2 mm)
Size	Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)
Standard Colors	Silver, Charcoal, and Black
Forming Temperature	195° to 200°C (383°F–392°F)
Bonding Temperature	55°C to 60°C (131°F–140°F)



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MECHANICAL PROPERTIES

Properties	Method	Results
Flexural Rigidity	ASTM D790-10	> 85 N-cm
Flexural Strength	ASTM D790-10	> 170 MPa
Flexural Modulus	ASTM D790-10	> 7000 MPa

Revised 04/2019

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