

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

TenCate Cetex® TC950 (BW1000)

CFRT® Woven Series Carbon/Glass Fiber

PRODUCT TYPE

Carbon (12K) fiber content: 30%

Glass (330) fiber content: 30%

Modified PMMA thermoplastic resin (40%)

Noted: Percentages are by volume and are nominal values)

TYPICAL APPLICATIONS

- Footwear
- Skates
- Recreational equipment

SHELF LIFE

Stable indefinitely at 77°F (25°C)

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

Revised 08/2015

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TC950_(BW-1000)_DS_080615

PRODUCTS DESCRIPTION

TenCate Cetex® TC950 (BW1000) is a continuous fiber reinforced thermoplastic (CFRT®) composite laminate. It blends the benefits of a thermoplastic polymer alloy with woven carbon and glass fibers in a basket weave for enhanced performance. The BW1000 style laminate is available in a single layer product; carbon in one direction and glass fibers at a 90° orientation to the carbon that is ultra thin, lightweight, and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

- Basket weave of 12K carbon fibers and glass (330) fibers
- Bi-directional reinforcement
- Lightest weight, thin single layer
- Available in various colors



Composition:

Fibers..... Carbon (12K) fiber content: 30%, Glass (330) fiber content: 30%

Resin PMMA impact modified proprietary thermoplastic resin (40%).

(Noted: Percentages are by volume and are nominal values)

TENCATE CETEX® TC950 (BW1000) MATERIAL PROPERTIES

Specific Gravity..... 1.57 g/cc

Thickness: 0.98 mm (.039 inches) nominal. Available in single ply laminate.

Color: Various

Size: Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)

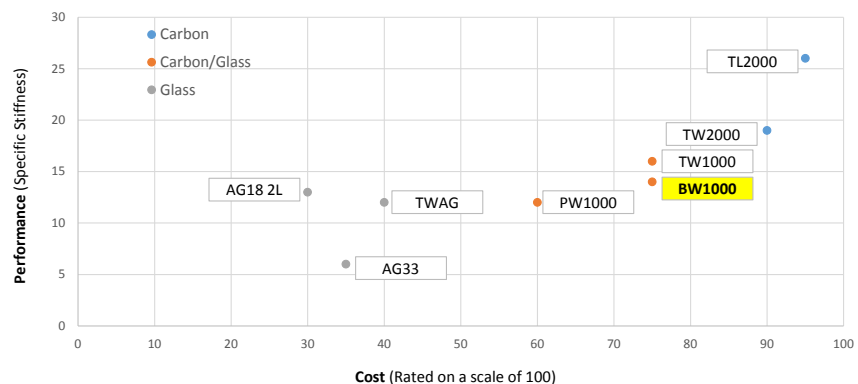
Property	Condition	Method	Results:	
Flexural Rigidity	RTD	ASTM D790-10	8.5 lbs-in ²	24.9 N/cm ²
Flexural Modulus	RTD	ASTM D790-10	1.9 Msi	13.4 GPa
Flexural Strength	RTD	ASTM D790-10	43 ksi	298 MPa

TYPICAL CONSOLIDATION PARAMETERS OR PROCESSING INFO

Recommended Processing Temperatures.....Forming 195°C to 200°C (383°F - 392°F)

Bonding 55°C to 60°C (131°F - 140°F)

PERFORMANCE versus COST



TENCATE PERFORMANCE COMPOSITES

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