

# PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

## TenCate Cetex® TC950 (PW1000)

### CFRT® Woven Series Carbon/Glass Fiber

#### PRODUCT TYPE

Carbon (12K) fiber content: 25%

Glass (330) fiber content: 25%

Modified PMMA thermoplastic resin (50%)

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 8/2015

*Cetex® and CFRT® are registered trademarks of Royal TenCate. All data given is based on representative samples of the materials in question. Since the method and circumstances under which these materials are processed and tested are key to their performance, and TenCate Advanced Composites has no assurance of how its customers will use the material, the corporation cannot guarantee these properties.*

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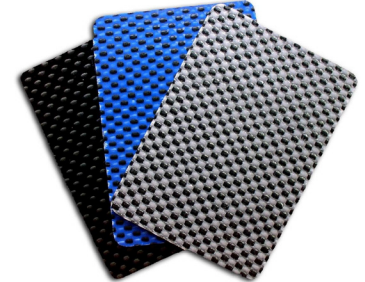
TC950\_(PW1000)\_DS\_080615

### PRODUCTS DESCRIPTION

TenCate Cetex® TC950 (PW1000) 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 plain weave for enhanced performance. The PW1000 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

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



### Composition:

Fibers..... Carbon (12K) fiber content: 25%, Glass (330) fiber content: 25%

Resin ..... PMMA impact modified proprietary thermoplastic resin (50%).

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

### TENCATE CETEX® TC950 (PW1000) MATERIAL PROPERTIES

Specific Gravity..... 1.48 g/cc

**Thickness:** 0.84 mm (0.033 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)

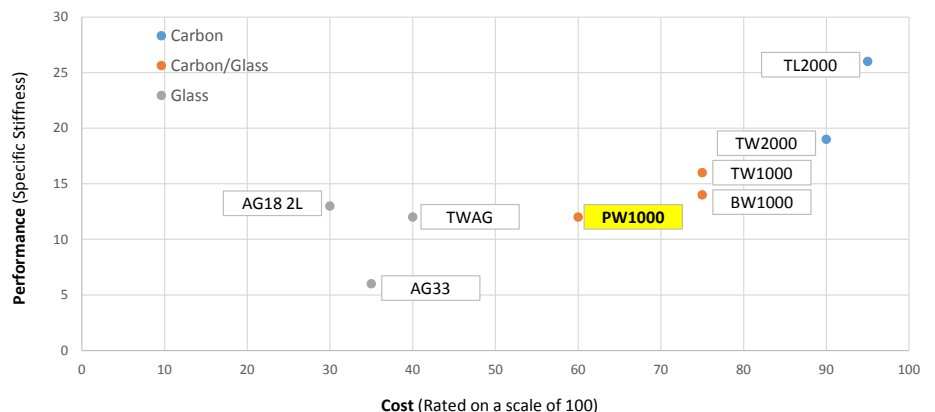
Property	Condition	Method	Results:	
Flexural Rigidity	RTD	ASTM D790-10	5.4 lbs-in <sup>2</sup>	15.8 N/cm <sup>2</sup>
Flexural Modulus	RTD	ASTM D790-10	1.5 Msi	10.3 GPa
Flexural Strength	RTD	ASTM D790-10	22 ksi	155 MPa

### 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

1150 Calle Suerte  
Camarillo, CA 93012 USA  
Tel: +1 805 482 1722  
Fax: +1 805 482 8776

5035 N. Service Rd, Bldg. A-1  
Burlington, Ontario L7L 5V2 CANADA  
Tel: 905 332 0991  
Fax: 905 332 0433

18410 Butterfield Blvd.  
Morgan Hill, CA 95037 USA  
Tel: +1 408 776 0700  
Fax: +1 408 776 0107

[www.tencate.com](http://www.tencate.com)

[www.tencateperformancecomposites.com](http://www.tencateperformancecomposites.com)  
[www.tencateadvancedcomposites.com](http://www.tencateadvancedcomposites.com)  
E-mail: [tcpcsales@tencate.com](mailto:tcpcsales@tencate.com)  
E-mail: [info@tcac-usa.com](mailto:info@tcac-usa.com) (USA)