TenCate BW-1000
CFRT® Woven Series
Carbon/Glass Fiber

PRODUCT DESCRIPTION
TenCate Cetex® BW-1000 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 BW-1000 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%).
(Note: Percentages are by volume and are nominal values)

TENCATE BW-1000 MATERIAL PROPERTIES
Specific Gravity.......................... 1.57 g/cc
Thickness: 0.91 mm (.036 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 | Results:
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Flexural Rigidity | RTD | 8 lbs-in² | 23.4 N/cm²
Flexural Modulus | RTD | 1.95 Msi | 13.5 GPa
Flexural Strength | RTD | 37 ksi | 284 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)

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