

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

TenCate Cetex® TC950 (TL2000) CFRT® Woven Series Carbon Fiber

PRODUCT TYPE

Modified PMMA thermoplastic resin

TYPICAL APPLICATIONS

- Orthotics
- Foot Supports
- Preforms

SHELF LIFE

Stable indefinitely at 77°F (25°C)

PRODUCTS DESCRIPTION

TenCate Cetex® TC950 (TL2000) is a continuous fiber reinforced thermoplastic (CFRT®) composite laminate. It blends the benefits of a thermoplastic polymer alloy with woven carbon fibers for enhanced performance. The TL2000 style laminate is available in a single layer or multi-layer (sandwich) construction that is ultra thin, lightweight, and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

- Plain weave of 3K carbon fibers
- Bi-directional carbon reinforcement
- Highest mechanical properties of our woven fabrics
- Lightest weight, thin single or multiple layers
- Available in natural carbon fiber



TENCATE CETEX® TC950 (TL2000) MATERIAL PROPERTIES

Specific Gravity..... 1.44 g/cc

Thickness: 0.89 mm (0.035 inches) nominal (2 layer sandwich construction). Available in single ply or multi-ply laminates.

Color: Natural (carbon)

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	20 lbs-in ²	58 N/cm ²
Flexural Modulus	RTD	ASTM D790-10	4.8 Msi	33.1 GPa
Flexural Strength	RTD	ASTM D790-10	80 Ksi	537 MPa

* Results shown with 0.33 mm PMMA core.

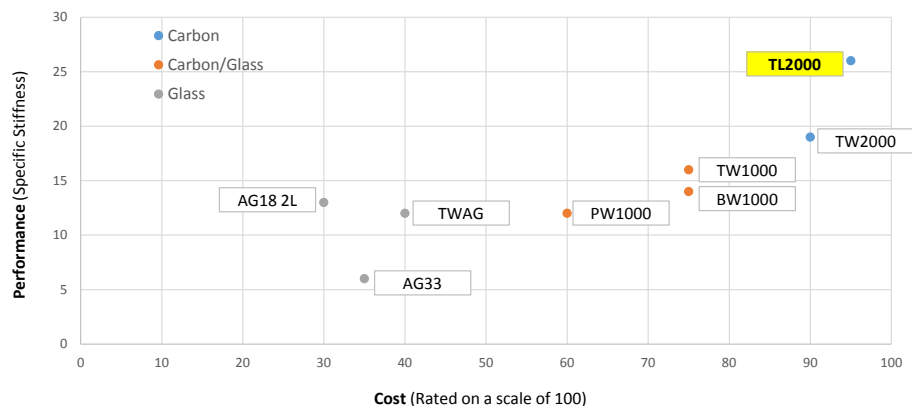
TYPICAL CONSOLIDATION PARAMETERS OR PROCESSING INFO

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

Bonding 55°C to 60°C (131°F - 140°F)

Note:

PERFORMANCE versus COST



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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.

TENCATE PERFORMANCE COMPOSITES

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