

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

TenCate Cetex® TC950 (TWAG)

PRODUCT TYPE

Glass (330) fiber content: 60%

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 04/2015

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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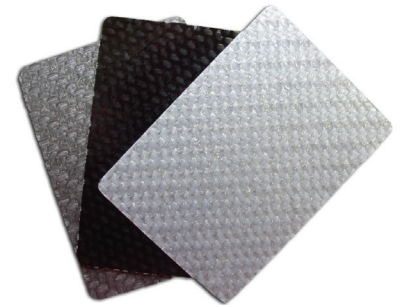
TC950_(TWAG)_DS_041415

PRODUCTS DESCRIPTION

TenCate Cetex® TC950 (TWAG) is a continuous fiber reinforced thermoplastic (CFRT®) composite laminate. It blends the benefits of a thermoplastic polymer alloy with woven glass fibers in a twill weave for enhanced performance. The TWAG style laminate is a single layer product with glass fibers in both direction (0° & 90° orientations) construction that is ultra thin, lightweight, and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

- Twill weave of glass (330) fibers
- Bi-directional glass reinforcement
- Lightest weight, thin single layer
- Available in various colors



Composition:

Fibers..... Glass (330) fiber content: 60%

Resin PMMA impact modified proprietary thermoplastic resin: (40%)
(Noted: Percentages are by volume and are nominal values)

TENCATE CETEX® TC950 (TWAG) MATERIAL PROPERTIES

Specific Gravity..... 1.85 g/cc

Thickness: 0.84 mm (0.033 inches) nominal. Available in single ply laminates.

Color: Various

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

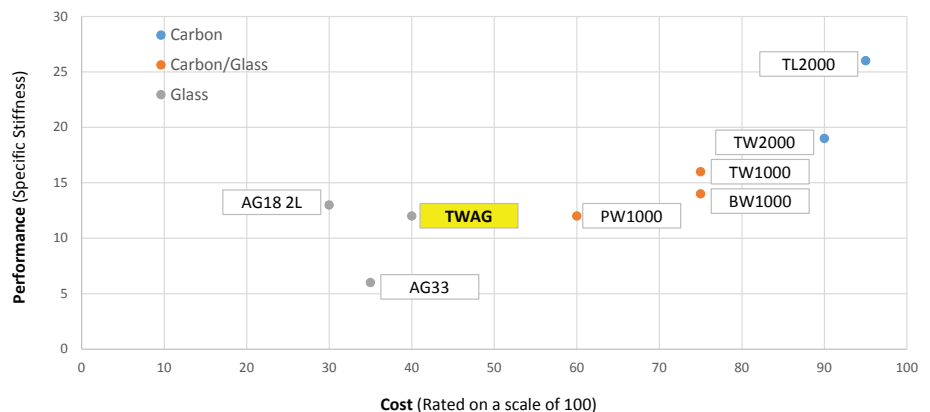
Property	Condition	Method	Results:	
Flexural Rigidity	RTD	ASTM D790-10	4.7 lbs-in ²	13.8 N/cm ²
Flexural Modulus	RTD	ASTM D790-10	1.6 Msi	11.2 GPa
Flexural Strength	RTD	ASTM D790-10	47 ksi	324.0 MPa

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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