

# PRODUCT DATA SHEET



TENCATE PERFORMANCE COMPOSITES

## TenCate AG18-2L

### CFRT® Woven Series Glass Fiber

#### PRODUCT TYPE

Glass (330) fiber content: 55%

Modified PMMA thermoplastic resin (45%)

(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

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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.*

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#### PRODUCTS DESCRIPTION

TenCate Cetex® AG18-2L is a continuous fiber reinforced thermoplastic (CFRT®) composite laminate. It blends the benefits of a thermoplastic polymer alloy with woven glass fibers in a plain weave for enhanced performance. The AG18-2L style laminate is available in a dual-layer product with glass fibers in both direction (0° & 90°) this construction is ultra-thin, lightweight, and resilient for improved energy return.

#### PRODUCT BENEFITS/FEATURES

- Plain weave of glass (330) fibers
- Bi-directional glass reinforcement
- Lightest weight, thin multiple layers
- Available in various colors



#### Composition:

Fibers..... Glass (330) fiber content: 55%

Resin ..... PMMA impact modified proprietary

thermoplastic resin: (45%) (Note: Percentages are by volume and are nominal values)

#### TENCATE AG18-2L MATERIAL PROPERTIES

Specific Gravity..... 4 Tow per inch: 1.65; 5 Tow per inch: 1.65

Thickness: 0.86mm (.034 inches) nominal (multilayer construction). Available in dual ply laminates.

Color: Various

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

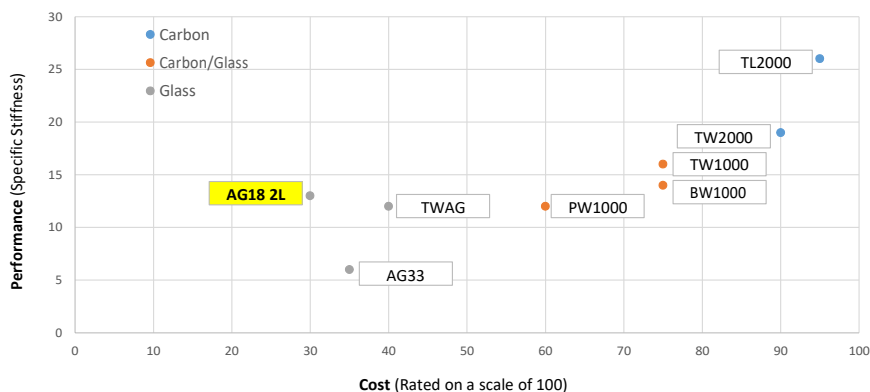
Property	Condition	Results: 4 Tow per inch		Results: 5 Tow per inch	
		7.9 lbs-in <sup>2</sup>	23.0 N/cm <sup>2</sup>	9.5 lbs-in <sup>2</sup>	28.0 N/cm <sup>2</sup>
Flexural Rigidity	RTD	7.9 lbs-in <sup>2</sup>	23.0 N/cm <sup>2</sup>	9.5 lbs-in <sup>2</sup>	28.0 N/cm <sup>2</sup>
Flexural Modulus	RTD	1.9 Msi	13.0 GPa	2.3 Msi	16.0 GPa
Flexural Strength	RTD	70 ksi	470 MPa	90 ksi	604 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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