PRODUCT DATA SHEET

TENCATE ADVANCED COMPOSITES

TenCate Cetex® TC950 (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 Instructions.

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PRODUCTS DESCRIPTION

TenCate Cetex® TC950 (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 CETEX® TC950 (AG18-2L) MATERIAL PROPERTIES

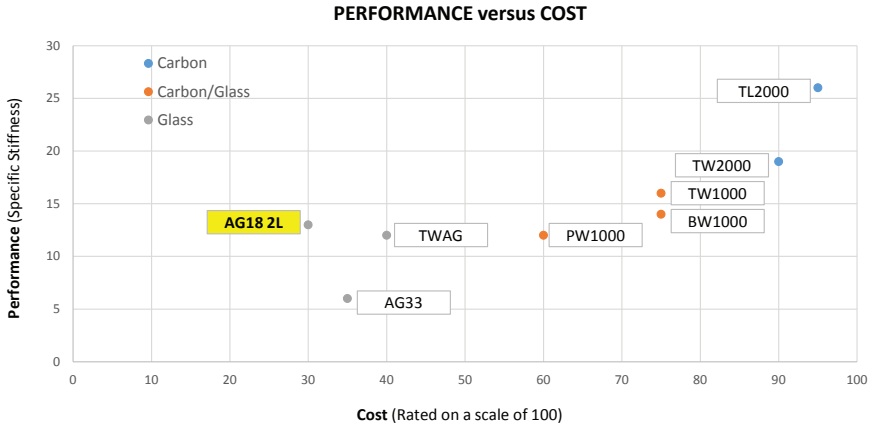
Specific Gravity..... 4 Tow per inch: 1.65; 5 Tow per inch: 1.65

Thickness: *0.89mm (.035 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	
Flexural Rigidity	RTD	8.0 lbs-in^2	23.4 N/cm^2	9.5 lbs-in^2	28.0 N/cm^2
Flexural Modulus	RTD	2.2 Msi	15.2 GPa	2.3 Msi	16.0 GPa
Flexural Strength	RTD	60 ksi	416 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)



TENCATE PERFORMANCE COMPOSITES

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