

PRODUCT DATA SHEET



TENCATE PERFORMANCE COMPOSITES

TenCate TWAG

PRODUCT TYPE

Glass 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.

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PRODUCTS DESCRIPTION

TenCate Cetex® 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 shapes and performance. The TWAG style laminate is available in a single-layer product. The TWAG laminate is ultrathin, lightweight and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

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



Composition:

Fibers..... Woven glass (330) fiber
 Resin PMMA impact modified proprietary thermoplastic resin

TENCATE TWAG MATERIAL PROPERTIES

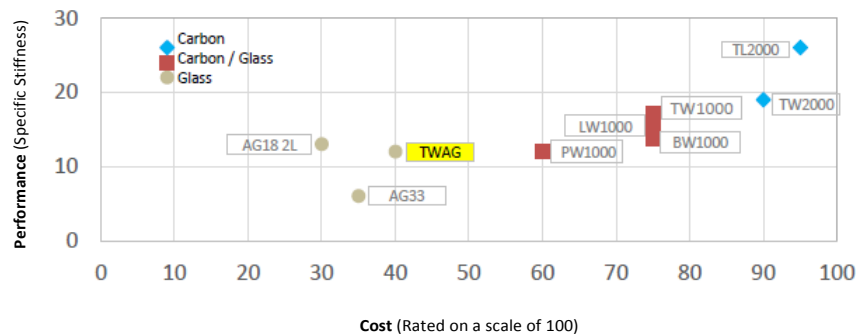
Specific Gravity: 1.7 g/cc ± 0.2 (Calculated based upon material volume)
Thickness: 0.95mm (± 0.2 mm)
Color: Various
Size: Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)

Property	Method	Results:
Flexural Rigidity	ASTM D790-10	> 40 N/cm
Flexural Modulus	ASTM D790-10	>250 Mpa
Flexural Strength	ASTM D790-10	>6000 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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