PRODUCT DATA SHEET

TenCate AG-33
CFRT® Woven Series
Glass Fiber

PRODUCT TYPE
Woven all glass fibers in plain weave
Modified PMMA thermoplastic resin
(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 5/2017

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PRODUCTS DESCRIPTION
TenCate Cetex™ AG-33 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 AG-33 style laminate is a single layer product that is ultrathin, lightweight, and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

- Plain weave of glass fibers
- Lowest material cost of our PW fabrics with all glass
- Lightest weight, thin single layer
- Available in stock and custom colors

Composition:
Fibers: Glass (330) fiber content: 55%
Resin: PMMA impact modified proprietary thermoplastic resin: (45%) (Noted: Percentages are by volume and are nominal values)

Physical Attributes:
Thickness: 0.84 mm nominal (0.033 inches)
Color: Various
Size: Cut to customer specifications from sheet of 91 x 122 cm

TENCATE AG-33 MATERIAL PROPERTIES
Specific Gravity: 1.81 g/cc
Thickness: 0.84 mm (0.033 inches) nominal. Available in single ply laminate.
Color: Various
Size: Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)

Property | Condition | Results:
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Flexural Rigidity | RTD | 3 lbs-in² | 8.8 N/cm²
Flexural Modulus | RTD | 1.0 Msi | 6.9 GPa
Flexural Strength | RTD | 35.8 ksi | 247.0 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

[Graph showing performance and cost comparison]

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