

PRODUCT DATA SHEET



TENCATE PERFORMANCE COMPOSITES

TenCate XTS 3L & 4L

PRODUCT TYPE

Uni Directional Glass (330) fiber content: 35% (3 layer) and 35% (4 layer)

Resin: ABS polymer blend, polymer or resin: 65%

(Noted: Percentages are by volume and are nominal values)

TYPICAL APPLICATIONS

- Footwear
- Skates
- Recreational equipment

SHELF LIFE

Stable indefinitely at 77°F (25°C)

Revised 5/2017

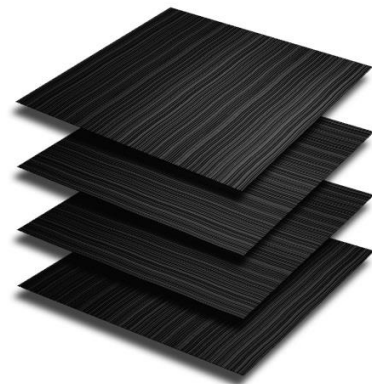
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PRODUCTS DESCRIPTION

TenCate Cetex® XTS 3L & 4L are continuous fiber reinforced thermoplastic (CFRT®) composite laminates. They blend the benefits of a thermoplastic polymer alloy with uni-directional glass fibers for enhanced performance. The XTS style laminate is offered in 3 layer (0°/90°/0° fiber orientations) and 4 layer (0°/90°/90°/0° fiber orientations) construction that is ultra-thin, lightweight, and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

- Uni-directional glass (330) fibers
- Lightest weight, thin multiple layers
- Available in black



Composition:

Fibers..... Uni Directional Glass (330), fiber content: 35% (3 layer) and 35% (4 layer)

Resin..... ABS polymer blend, polymer or resin: 65%

(Noted: Percentages are by volume and are nominal values)

TENCATE XTS 3L & 4L MATERIAL PROPERTIES

Specific Gravity..... 1.41 g/cc

Thickness: 3 Layer: 0.9mm (.035 inches), 4 Layer: 1.1mm (.043 inches) nominal.

Color: Black

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

Property	Condition	Method	Results:		Results:	
			3 Layer		4 Layer	
Flexural Rigidity	RTL	ASTM D790-10	13.9 lbs/in ²	41 N/cm ²	18 lbs/in ²	52.7 N/cm ²
Flexural Modulus	RTL	ASTM D790-10	2.9 Msi	20 GPa	2.7 Msi	18.6 GPa
Flexural Strength	RTL	ASTM D790-10	65.3 ksi	450 MPa	77.9 ksi	537 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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