

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

TenCate Cetex® TC952 (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)

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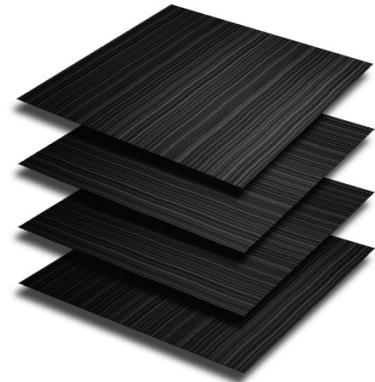
TC952_(XTS)_DS_070215

PRODUCT DESCRIPTION

TenCate Cetex® TC952 (XTS 3L & 4L) are continuous fiber reinforced thermoplastic (CFRT®) composite laminates. They blends 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 CETEX® TC952 (XTS 3L & 4L) MATERIAL PROPERTIES

Specific Gravity..... 1.41 g/cc

Thickness: 3 Layer: 0.90 mm (0.035 inches), 4 Layer: 1.2 mm (0.047 inches) nominal.

Color: Black

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

Property	Condition	Method	Results: 3 Layer		Results: 4 Layer	
			11.2 lbs/in ²	32.7 N/cm ²	19 lbs/in ²	55.3 N/cm ²
Flexural Rigidity	RTD	ASTM D790-10	11.2 lbs/in ²	32.7 N/cm ²	19 lbs/in ²	55.3 N/cm ²
Flexural Modulus	RTD	ASTM D790-10	3.0 Msi	20.8 GPa	2.4 Msi	16.5 GPa
Flexural Strength	RTD	ASTM D790-10	69.6 ksi	467.2 MPa	73 ksi	506 MPa

RTD: Room Temperature Dry.

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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