

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

TenCate Cetex® TC950 SL2000/ SuperLam

PRODUCT TYPE

Carbon (3K) fiber content: 31%

Modified PMMA thermoplastic resin (69%)

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

TYPICAL APPLICATIONS

- Footwear
- Skates

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 06/2015

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PRODUCTS DESCRIPTION

TenCate Cetex® TC950 (SL2000/SuperLam) is a continuous fiber reinforced thermoplastic (CFRT®) composite laminate. It blends the benefits of a thermoplastic polymer alloy with woven carbon fibers in a twill or plain weave for enhanced performance. The SL2000/SuperLam style laminate is available in a single layer product that is ultra thin, lightweight, and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES

- Twill or plain weave of 3K carbon fibers
- Lightweight, thin single layer
- Available in natural black (carbon) color



TENCATE CETEX® TC950 SL2000/SUPERLAM MATERIAL PROPERTIES

Specific Gravity..... 1.29 g/cc

Fibers..... Woven (3K) carbon fibers – twill or plain weave

Resins..... PMMA impact modified proprietary thermoplastic resin

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

Thickness: 0.25 mm (0.01 inches) nominal. Available in single ply laminates.

Color: Natural black (carbon)

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

| Property | Condition | Method | Results | |
|------------------|-----------|--------------|---------|-----------|
| Tensile Strength | RTD | ASTM D790-10 | 512 ksi | 3438 MPa |
| Tensile Modulus | RTD | ASTM D790-10 | 32 Msi | 220.6 GPa |

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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