

PRODUCT DATA SHEET



TENCATE PERFORMANCE COMPOSITES

TenCate 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.

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PRODUCTS DESCRIPTION

TenCate Cetex™ 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 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)

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