

TECHNICAL DATA



TENCATE ADVANCED COMPOSITES

TenCate Cetex[®] TC960 Polypropylene (PP) Thermoplastic Composite

PRODUCT TYPE

Polypropylene thermoplastic composite

TYPICAL APPLICATIONS

- Truck bodies
- Under the hood fairings

FEATURES

- Easily formable
- Impact Resistant

HEAT DISTORTION TEMPERATURE

Approximately 266°F/130°C

SHELF LIFE

Indefinite at 77°F/25°C

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CETEX-TC960_DS_062813

PRODUCT DESCRIPTION

TenCate Cetex[®] TC960 PP (formerly PMC/Baycomp CFRT[®] PP) is a polypropylene-based thermoplastic unidirectional tape. This thermoplastic composite is designed for applications which require high impact resistance, but where cost is a factor. The impact toughness of glass fiber/polypropylene composites make them ideal for use in truck bodies, vehicles and vehicle enclosures.

TENCATE CETEX TC960 PP PRODUCT BENEFITS/FEATURES

- Good toughness
- Good chemical and solvent resistance
- Lightweight
- UL94 flammability rating HB



TENCATE CETEX TC960 PP FIBERGLASS FIBER UNITAPE

Resin content by weight at 40%. Composite Density 1.49 g/cm³.

Tape Width 164 mm (6.5 inches). Tape Thickness 0.27 mm (0.011 inches).

Property	Condition	Method	Results	
Tensile Strength 0°	RTD	ASTM D3039	109 ksi	750 MPa
Tensile Modulus 0°	RTD	ASTM D3039	4.0 Msi	27.8 GPa
Flexural Strength 0°	RTD	ASTM D790	93 ksi	643 MPa
Flexural Modulus 0°	RTD	ASTM D790	4.1 Msi	28.2 GPa
Compressive Strength 0°	RTD	ASTM D3410	20 ksi	136 MPa
Short Beam Shear ILSS	RTD	ASTM D2344	2.9 ksi	19.8 MPa

Recommended Process Temperature is 390-420°F (199-216°C)

TENCATE CETEX TC960 CARBON FIBER UNITAPE

Resin content by weight at 63% (77% by volume). Composite Density 1.1 g/cm³.

Tape Width 165 mm (6.5 inches). Tape Thickness 0.28 mm (0.011 inches).

Property	Condition	Method	Results	
Tensile Strength 0°	RTD	ASTM D3039	106 ksi	732 MPa
Tensile Modulus 0°	RTD	ASTM D3039	6.5 Msi	45 GPa
Flexural Strength	RTD	ASTM D790	62 ksi	427 MPa
Flexural Modulus	RTD	ASTM D790	6.5 Msi	45 GPa
Compressive Strength 0°	RTD	ASTM D3410	23 ksi	164 MPa
Short Beam Shear ILSS	RTD	ASTM D2344	3.4 ksi	23.6 MPa

Recommended Process Temperature is 390-420°F (199-216°C)

TENCATE PERFORMANCE COMPOSITES

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