

# PRODUCT DATA SHEET



TENCATE PERFORMANCE COMPOSITES

## TenCate Cetex<sup>®</sup> TC960 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

Revised 5/2017

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CETEX-TC960\_DS\_050917

### PRODUCT DESCRIPTION

TenCate Cetex TC960 (formerly PMC/Baycomp CFRT<sup>®</sup> 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 PRODUCT BENEFITS/FEATURES

- Good toughness
- Good chemical and solvent resistance
- Lightweight



### NEAT RESIN DATA

Density ..... 0.9 g/cc  
 Melt Temperature T<sub>m</sub> ..... 320°F/160°C  
 Tensile Strength ..... 4.7 ksi/32 Mpa  
 Tensile Modulus ..... 0.13 Msi/0.9GPa  
 Elongation, Ultimate ..... 100%  
 Izod Impact Strength Notched ..... 0.9/ft-lbs/in  
 Hardness Shore D ..... 69  
 Heat Deflection Temperature ..... 130°F/54°C  
 UL94 rating ..... HB

### TENCATE CETEX TC960 FIBERGLASS FIBER PP UNITAPE

Resin content by weight at 40%. Composite Density 1.49 g/cm<sup>3</sup>.  
 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 PERFORMANCE COMPOSITES

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