

TenCate Cetex® TC910 Nylon 6 Thermoplastic Composite

PRODUCT TYPE

Nylon 6 based thermoplastic resin system

TYPICAL APPLICATIONS

- Automotive Structure
- Under Hood Applications
- Replacement for Highly Loaded Injection Molded Parts

FEATURES

- Excellent impact & solvent resistance
- Good elevated temperature resistance

HEAT DISTORTION TEMPERATURE

Approximately 392°F/200°C

SHELF LIFE

Indefinite at 77°F (25°C)

Revised 08/2013

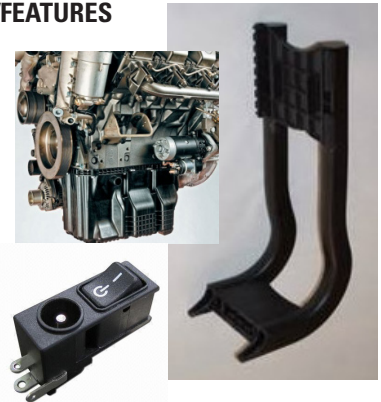
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PRODUCTS DESCRIPTION

TenCate Cetex® TC910 Nylon 6 (formerly PMC/Baycomp CFRT® Nylon 6 Unitape) is a family of nylon 6 thermoplastic composites. It features high strength, good heat distortion temperatures and excellent solvent resistance. As a result of these attributes, TenCate Cetex® TC910 is ideal for automotive, transportation and industrial applications where both strength and chemical resistance is valued.

TENCATE CETEX TC910 NYLON 6 PRODUCT BENEFITS/FEATURES

- Good resistance to solvents
- Excellent balance of strength and impact resistance
- Moldable and formable
- Excellent temperature resistance and strength makes it ideal for housings and under the hood applications



TENCATE CETEX TC910 NYLON 6 FIBERGLASS UNIDIRECTIONAL TAPE

Resin content by weight at 40%. Composite Density 1.73 g/cm³.

Tape Width 166 mm (6.5 inches). Tape Thickness 0.25 mm (0.010 Inches).

Property	Condition	Method	Results	
Tensile Strength 0°	RTD	ASTM D3039	131 ksi	900 MPa
Tensile Modulus 0°	RTD	ASTM D3039	4.4 Msi	30 GPa
Flexural Strength 0°	RTD	ASTM D790	152 ksi	1050 MPa
Flexural Modulus 0°	RTD	ASTM D790	4.2 Msi	29 GPa
Compressive Strength 0°	RTD	ASTM D3410	50 ksi	345 MPa
Short Beam Shear Strength	RTD	ASTM D2344	6.1 ksi	42 MPa

Recommended Process Temperature = 480-520°F (249-271°C)

TENCATE CETEX TC910 NYLON 6 CARBON FIBER UNIDIRECTIONAL TAPE

Resin content by weight at 40%. Composite Density 1.45 g/cm³.

Tape Width 166 mm (6.5 inches). Tape Thickness 0.16 mm (0.007 Inches).

Property	Condition	Method	Results	
Tensile Strength 0°	RTD	ASTM D3039	276 ksi	1900 MPa
Tensile Modulus 0°	RTD	ASTM D3039	14.5 Msi	100 GPa
Flexural Strength 0°	RTD	ASTM D790	138 ksi	950 MPa
Flexural Modulus 0°	RTD	ASTM D790	14.1 Msi	97 GPa
Compressive Strength 0°	RTD	ASTM D3410	54 ksi	375 MPa
Short Beam Shear Strength	RTD	ASTM D2344	6.2 ksi	43 MPa

Recommended Process Temperature = 480-520°F (249-271°C)

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