



# Celstran® CFR-TP PP GF60-13

Celanese Corporation - Polypropylene

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## General Information

### Product Description

Celstran® CFR-TP PP GF60-13 is a 60% E-glass by weight PP (polypropylene) continuous fiber (uni-directional) reinforced thermoplastic composite tape. The material exhibits a high strength-to-weight ratio, excellent toughness and chemical resistance. It is well suited for industrial, automotive and sporting goods applications where cost and process ability are critical. The material is available in natural and black colors. Alternate tape widths and thicknesses may be available.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
Filler / Reinforcement	• Asia Pacific • Glass Fiber, 60% Filler by Weight, 35% Filler by Volume		
Features	• Chemical Resistant	• Good Toughness	• High Strength
Uses	• Automotive Applications	• Industrial Applications	• Sporting Goods
Appearance	• Black	• Natural Color	
Forms	• Unidirectional Prepreg		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup>	3.73E+6	psi	ASTM D3039M
Tensile Strength <sup>2</sup>	106000	psi	ASTM D3039M
Tensile Elongation <sup>2</sup> (Break)	3.0	%	ASTM D3039M
Flexural Modulus <sup>2</sup>	3.90E+6	psi	ASTM D790
Flexural Strength <sup>2</sup>	75600	psi	ASTM D790
Flexural Elongation (Break) <sup>2</sup>	2.16		ASTM D790
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>3</sup>	14.0	°F	ISO 11357-2
Melting Temperature <sup>3</sup>	343	°F	ISO 11357-3
Additional Information	Nominal Value	Unit	
Fiber Areal Weight	122.3	lb/ream	
Tape Areal Weight	204.0	lb/ream	
Tape Thickness	8.7	mil	
Tape Width	13	in	

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0°, Tape

<sup>3</sup> 10°C/min