



Celstran® CFR-TP PA6 GF60-03

Celanese Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

Celstran® CFR-TP PA6 GF60-03 is a 60% E-glass by weight polyamide 6 (nylon 6) continuous fiber (uni-directional) reinforced thermoplastic composite tape. This material exhibits a high strength-to-weight ratio, excellent toughness and impact resistance. It is well suited for industrial, automotive and sporting goods applications where strength, toughness and cost are critical, as well as ease of processing. 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 • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight, 40% Filler by Volume		
Features	• Good Impact Resistance • Good Processability	• Good Toughness • High Strength	
Uses	• Automotive Applications	• Industrial Applications	• Sporting Goods
Appearance	• Black	• Natural Color	
Forms	• Unidirectional Prepreg		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	4.31E+6	psi	ASTM D3039M
Tensile Strength ²	98500	psi	ASTM D3039M
Tensile Elongation ² (Break)	2.4	%	ASTM D3039M
Flexural Modulus ²	4.66E+6	psi	ASTM D790
Flexural Strength ²	109000	psi	ASTM D790
Flexural Elongation (Break) ²	3.12		ASTM D790
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ³	135	°F	ISO 11357-2
Melting Temperature ³	428	°F	ISO 11357-3
Additional Information	Nominal Value	Unit	
Fiber Areal Weight	186.8	lb/ream	
Tape Areal Weight	311.5	lb/ream	
Tape Thickness	11.8	mil	
Tape Width	12	in	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0°, Tape

³ 10°C/min