



Maezio® CF GP 1000T

170-00-001/44

Preliminary Product Description*

Polycarbonate based composite tape
continuous fiber reinforced

Carbon fiber reinforced tape comprising high mechanical strength; general purpose;
for thermoforming applications

Property	Test Condition	Unit	Standard	Typical Value**
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Mechanical properties (23 °C, 50 % r. F.)

Tensile modulus 0°	2 mm/min	GPa	ISO 527-5	105
Tensile modulus 90°	1 mm/min	GPa	ISO 527-5	5
Tensile strength 0°	2 mm/min	MPa	ISO 527-5	1400
Tensile strength 90°	1 mm/min	MPa	ISO 527-5	25
Flexural modulus 0°	2 mm/min	GPa	ISO 14125	93
Flexural modulus 90°	2 mm/min	GPa	ISO 14125	5
Flexural strength 0°	2 mm/min	MPa	ISO 14125	700
Flexural strength 90°	2 mm/min	MPa	ISO 14125	40
Shear modulus +/-45°	2 mm/min	MPa	ISO 14129	2200
Shear strength +/-45°	2 mm/min	MPa	ISO 14129	40
Thickness		mm	-	0.17

Other properties (23 °C)

Density	-	g/cm³	-	1.5
Fiber volume content		vol%	internal method	44
Area weight		g/m²	-	250
RoHs compliance		-	-	yes

Processing conditions

Drying temperature		°C		120
Drying time (fresh air dryer / high speed dryer)		h		4

Disclaimer

***Typical value

These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold and the processing conditions of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

General

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Recommended Processing and Drying Conditions

***External heating thermoforming, sheet is thermoformed under pressure inside a mold to receive a defined part.

****Internal heating thermoforming, preheat the composite sheet to forming temperature by internal heating technologies including electric heating, induction heating, steam heating, etc.

Conditions depend on parts geometry. For more details contact Covestro

<https://www.plastics.covestro.com/Library/Overview.aspx>