

CIT CF306 12K T700 T2/2 ET445 40% 127CM

PROPERTIES

Dry Fabric:	Unit	Typical Values
Weaving Style	-	Twill 2x2
Fiber Type	-	T700S 12K
Fiber Density	g/cm ³	1.8
Warp	threads/cm	1.8
Weft	threads/cm	1.9
Areal Weight	g/m ²	300 (± 4%)

Uncured Prepreg:	Unit	Typical Values
Tack	-	Medium
Flow	%	5 (± 5)
Out life @ 23°C	days	30
Storage life @ -18°C	months	12
Nominal Area weight	g/m ²	500
Nominal Resin content	Wt %	40 (± 3)
Volatile content	Wt %	< 1
Nominal Width	mm	1270
Cured Ply Thickness *	mm	0.333

Details provided in this document have been obtained from carefully controlled samples; data are an overview of this product and should not be intended as technical specification.

Because the properties of this product can be significantly affected by the fabrication and testing techniques employed and since CIT does not control the conditions under which its products are tested and used, CIT cannot guarantee that the properties provided will be obtained with other processes and equipment.

CIT has the right to change any data or information when deemed appropriate.

<i>Cured Material Property</i>	<i>Unit</i>	<i>Actual Value</i>
Tensile Modulus 0°	GPa	56.0
Tensile Strength 0°	MPa	925
Elongation at break 0°	%	1.46
Poisson's ratio	-	0.05
Tensile Modulus 90°	GPa	56.5
Tensile Strength 90°	MPa	1026
Elongation at break 90°	%	1.58
Poisson's ratio	-	0.06
Compression Modulus 0°	GPa	49.7
Compression Strength 0°	MPa	559
Compression Modulus 90°	GPa	50.1
Compression Strength 90°	MPa	599
Flexural Modulus 0°	GPa	50.9
Flexural Strength 0°	MPa	976
Flexural Modulus 90°	GPa	51.7
Flexural Strength 90°	MPa	957
In-Plane Shear Modulus	GPa	2.99
In-Plane Shear Strength	MPa	104
In-Plane Shear Strength @ 5%	MPa	58.6

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @ 125° for 60 minutes in autoclave. External pressure applied: 6 bar).

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