

CIT HM100 #2574 24% 100CM M46J12K-P6045F-11

PROPERTIES

<i>Dry Fabric:</i>	<i>Unit</i>	<i>Typical Values</i>
Carbon Fiber	-	M46J 12k
Fiber Density	g/cm ³	1.84
Areal Weight	g/m ²	100 (± 5%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	Low
Flow	%	5 (± 5%)
Out life @ 23°C	days	30
Storage life @ -18°C	months	12
Nominal Area weight	g/m ²	132
Nominal Resin content	Wt %	24 (± 3)
Volatile content	Wt %	< 1
Nominal Width	mm	1000
Cured Ply thickness*	mm	0.080

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @130°C for 120 minutes in autoclave. External pressure applied: 6 bar).

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<i>Cured Material Property</i>	<i>Test method</i>	<i>Units</i>	<i>Actual Values</i>
Tensile Modulus 0°	ASTM D3039	GPa	275
Tensile Strength 0°		MPa	2450
Poisson's Ratio 0°		-	0.28
Elongation @ break		%	0.82
Vf		%	68.6
Tensile Modulus 90°	ASTM D3039	GPa	7.51
Tensile Strength 90°		MPa	44.0
Poisson's Ratio 90°		-	0.015
Elongation @ break		%	0.6
Vf		%	68.6
Compressive Modulus 0°	ASTM D6641	GPa	233
Compressive Strength 0°	SACMA SRM 1R94	MPa	1180
Vf		%	67.8
Compressive Modulus 90°	ASTM D6641	GPa	7.71
Compressive Strength 90°	SACMA SRM 1R94	Mpa	201
Vf		%	67.8
In Plane Shear Modulus		GPa	4.95
In Plane Shear Strength @ 5% strain	ASTM D3518	MPa	75.9
In Plane Shear Strength @ failure		MPa	136
Inter-Laminar Shear Strength 0°	ASTM D2344	MPa	85.0

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