

## CIT HM124 6K M55J ER450 32% 60CM

### PROPERTIES

<i>Dry Fiber:</i>	<i>Unit</i>	<i>Typical Values</i>
Fiber Type	-	M55J 6K
Fiber Density	g/cm <sup>3</sup>	1.91
Areal Weight	g/m <sup>2</sup>	124 (± 4%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	High
Flow	%	5 (± 5%)
Out Life @ 23°C	days	45
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m <sup>2</sup>	182
Nominal Resin Content	Wt %	32 (± 3%)
Volatile Content	Wt %	< 1
Nominal Width	mm	600
Laminate Density*	g/cm <sup>3</sup>	1.62
Cured Ply Thickness*	mm	0.112

(\*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @135°C for 120 minutes in autoclave. External pressure applied: 6 bar).

*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.*

<b>Cured Material Property</b>	<b>Test method</b>	<b>Units</b>	<b>Actual Value</b>
0° Tensile modulus	ASTM D3039	GPa	303
0° Tensile strength		MPa	1770
0° Poisson's ratio		-	0.20
0° Elongation at failure		%	0.53
90° Tensile modulus	ASTM D3039	GPa	5.93
90° Tensile strength		MPa	38.9
90° Poisson's ratio		-	0.02
90° Elongation at failure		%	0.61
0° Compressive modulus	SACMA SRM 1R-94	GPa	261
0° Compressive strength		MPa	736
0° Elongation at failure		%	0.28
90° Compressive modulus	SACMA SRM 1R-94	GPa	6.34
90° Compressive strength		MPa	180
90° Elongation at failure		%	3.38
In-plane shear modulus	ASTM D3518	GPa	3.97
In-plane shear strength @ failure		MPa	64.0
In-plane shear strength @ 5%		MPa	52.8
Inter-laminar shear strength	ASTM D2344	MPa	73.6

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