

CIT HM124 12K M46J ER450G 36% 60CM

ROPERTIES				
Dry Tape:	Unit	Typical Values		
Carbon Fiber	-	M46J 12K 1.84 124 (± 4%)		
Fiber Density	-			
Areal Weight	g/cm ³			
Uncured Prepreg:	Unit	Typical Values		
Tack	-	Medium		
Flow	%	6 (± 5%)		
Out life @ 23°C	days	45		
Storage life @ -18°C	months	12		
Nominal area weight	g/m²	194		
Nominal resin content	Wt %	36 (± 3%)		
Volatile content	Wt %	< 1		
Nominal width	mm	600		
Laminate density*	g/cm ³	1.56		
Cured ply thickness*	mm	0.124		

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @135° 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.



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Cured Material Property	Test method	Units	Actual Value
0° Tensile modulus	ASTM D3039	GPa	217
0° Tensile strength		MPa	1784
0° Poisson's ratio		-	0.313
0° Elongation at failure		%	0.67
90° Tensile modulus	ASTM D3039	GPa	6.68
90° Tensile strength		MPa	31.5
90° Poisson's ratio		-	0.014
90° Elongation at failure		%	0.48
0° Compressive modulus	SACMA SRM 1R-94	GPa	199
0° Compressive strength		MPa	873
0° Elongation at failure		%	0.44
90° Compressive modulus	SACMA SRM 1R-94	GPa	7.08
90° Compressive strength		MPa	238
90° Elongation at failure		%	3.81
In Plane Shear modulus	ASTM D3518	GPa	4.08
In Plane Shear strength @ failure		MPa	75.4
Inter-laminar Shear Strength	ASTM D2344	MPa	81.6

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