Composite Materials (Italy) s.r.l. – Socio Unico
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CIT HM124 6K M55J ER450 32% 60CM

PROPERTIES

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

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

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Cured Material Property	*Test method*	*Units*	*Actual Value*
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

(*) 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).