**Composite Materials (Italy) s.r.l.** – Socio Unico
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# CIT CC200 3K T300 T2/2 ER450G 42% 125CM

## PROPERTIES

| *Dry Fabric:* | *Unit* | *Typical Values* |
|---|---|---|
| Weaving Style | - | Twill 2/2 |
| Fiber Type | - | T300 3K |
| Fiber Density | $g/cm^3$ | 1.76 |
| Warp | threads/cm | 4.90 |
| Weft | threads/cm | 5.10 |
| Areal Weight | $g/m^2$ | 200 (±2%) |

| *Uncured Prepreg:* | *Unit* | *Typical Values* |
|---|---|---|
| Tack | - | High |
| Flow | % | 11 (± 5%) |
| Out Life @ 23°C | days | 45 |
| Storage Life @ -18°C | months | 12 |
| Nominal Areal Weight | $g/m^2$ | 345 |
| Nominal Resin Content | Wt % | 42% (± 3%) |
| Volatile Content | Wt % | < 1 |
| Nominal Width | mm | 1250 |
| Laminate Density* | $g/cm^3$ | 1.49 |
| Cured Ply Thickness* | mm | 0.231 |

(*) 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 | 56.6 |
| 0° Tensile strength | | MPa | 559 |
| 0° Poisson's ratio | | - | 0.07 |
| 0° Elongation at failure | | % | 0.94 |
| 90° Tensile modulus | ASTM D3039 | GPa | 56.0 |
| 90° Tensile strength | | MPa | 612 |
| 90° Poisson's ratio | | - | 0.07 |
| 90° Elongation at failure | | % | 1.01 |
| 0° Compressive modulus | SACMA SRM 1R-94 | GPa | 56.6 |
| 0° Compressive strength | | MPa | 704 |
| 0° Elongation at failure | | % | 1.52 |
| 90° Compressive modulus | SACMA SRM 1R-94 | GPa | 52.7 |
| 90° Compressive strength | | MPa | 738 |
| 90° Elongation at failure | | % | 1.76 |
| In-plane shear modulus | ASTM D3518 | GPa | 3.56 |
| In-plane shear strength @ failure | | MPa | 108 |
| In-plane shear strength @ 5% | | MPa | 85.3 |
| Inter-laminar shear strength | ASTM D2344 | MPa | 81.7 |

(*) 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).