CE 220

CE 220 is a high performance material with excellent strength, stiffness and thermal stability that is a good choice for use at elevated temperatures.

CarbonResin CE 220

Tensile Properties—ASTM D638-Type V, 1 mm/min	Metric	U.S.
Tensile Modulus	4.20 ± 0.30 GPa	600 ± 50 ksi
Ultimate Tensile Strength	100 ± 10 MPa	14 ± 2 ksi
Elongation at Break	3 ± 1%	3 ± 1%
Flexural Properties —ASTM D790, 0.01 mm/mm-min	Metric	U.S.
Flexural Strength	150 ± 10 MPa	22 ± 2 ksi
Flexural Modulus	4.00 ± 0.20 GPa	580 ± 30 ksi
Impact Properties	Metric	U.S.
Notched Izod (machined), ASTM D256	24 ± 2 J/m	0.45 ± 0.04 ft-lb/in.
Unnotched Izod, ASTM D4812	315 ± 40 J/m	5.9 ± 0.7 ft-lb/in.
Thermal Properties	Metric	U.S.
Heat Deflection Temperature @ 0.45 MPa/66 psi, ASTM D648	219 °C	426 °F
Heat Deflection Temperature @ 1.82 MPa/264 psi, ASTM D648	191 °C	375 °F
Coefficient of Thermal Expansion, ASTM E228	60 ppm/°C	33 ppm/°F
Tg (DMA, E')	175 °C	347 °F
Tg (DMA, tan(d))	220 °C	428 °F