

DPP™ high performance micro-pultrusion profiles

Material properties

Base materials

Resin

- High performance bisphenol A epoxy resin.
- Standard Tg: 120 °C. Can be elevated up to 150 °C on request.

Standard Carbon Fiber

- Toray T700 or equivalent
- Tensile strength (virgin fiber): 4900 Mpa
- Tensile modulus (virgin fiber): 230 Gpa
- Ultimate elongation: 2 %

High modulus carbon fiber

- Toray M46 or equivalent
- Tensile strength (virgin fiber): 4200 Mpa
- Tensile modulus (virgin fiber): 430 Gpa
- Ultimate elongation: 1.1 %

Composite properties (typical values)

Standard Carbon Fiber

- Fiber volume fraction : +/- 63 %
- Tensile strength: 2500 Mpa
- Tensile modulus: 140 Gpa
- Compression strength: 1600 Mpa
- Ultimate elongation: 2 %

High modulus carbon fiber

- Fiber volume fraction : +/- 63 %
- Tensile strength: 2200 Mpa
- Tensile modulus: 240 Gpa
- Compression strength: 1000 Mpa
- Ultimate elongation: 1.1 %