

| Property                         | Specification / Typical Value                               | Standards / Notes                                                    |
|----------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------|
| Product Name                     | Pultruded Carbon Fiber Strip                                | Continuous- pultruded composite                                      |
| Material Composition             | 100% Carbon Fiber (T300 / T700)<br>+ Epoxy Resin            | Aerospace- grade fiber & matrix                                      |
| Manufacturing Process            | Pultrusion                                                  | Ensures constant cross- section and fiber alignment                  |
| Strip Width                      | 5 mm - 100 mm                                               | Custom widths in 1mm increments                                      |
| Strip Thickness                  | 0.5 mm - 5 mm                                               | Tolerance $\pm 0.05$ mm                                              |
| Length                           | Up to 3000 mm continuous                                    | Cut- to- length service available                                    |
| Dimensional Tolerance            | Width $\pm 0.1$ mm / Thickness $\pm 0.05$ mm                | ISO 2768- m general tolerances                                       |
| Straightness                     | $\leq 0.2$ mm per meter                                     | ISO 5286- 2 for pultruded profiles                                   |
| Density                          | 1.55 g/cm <sup>3</sup>                                      | ASTM D792                                                            |
| Tensile Strength (Axial)         | $\geq 1,200$ MPa                                            | ASTM D3039                                                           |
| Tensile Modulus (Axial)          | $\geq 70$ GPa                                               | ASTM D3039                                                           |
| Flexural Strength                | $\geq 600$ MPa                                              | ASTM D790                                                            |
| Flexural Modulus                 | $\geq 60$ GPa                                               | ASTM D790                                                            |
| Interlaminar Shear Strength      | $\geq 60$ MPa                                               | ASTM D2344                                                           |
| Coefficient of Thermal Expansion | $\approx 0 \times 10^{-6} / ^\circ \text{C}$ (in- plane)    | ASTM E228                                                            |
| Service Temperature Range        | -40 ° C to +120 ° C                                         | Short- term to 150 ° C                                               |
| Surface Finish                   | Matte (standard) / Optional glossy UV- clear coat           | One- or two- sided finish                                            |
| Fire Resistance (optional)       | UL 94 V- 0 resin system available                           | For electronics & aerospace                                          |
| Electrical Conductivity          | Conductive (along strip axis)                               | EMI/RFI shielding potential                                          |
| Corrosion Resistance             | Excellent (non- metallic)                                   | Ideal for marine/chemical environments                               |
| Certifications                   | ISO 9001, RoHS, REACH, MSDS                                 | Test reports available upon request                                  |
| Typical Applications             | Edge reinforcement, stiffeners, structural bracing, tooling | Where high stiffness- to- weight and precise strip profiles required |