

INTAMSYS® PA6-CF

Product Description

INTAMSYS® PA6-CF is a carbon fiber reinforced Nylon6 based 3D printing filament with improved dimensional stability and mechanical properties.

| PHYSICAL PROPERTIES | TEST METHOD | UNITS | TYPICAL VALUE |
|-----------------------------|-------------|-------------------|---------------|
| Density | ISO 1183 | g/cm ³ | 1.2 |
| Heat Deflection Temperature | ISO 75 | °C | 155 |

| MECHANICAL PROPERTIES ¹ | TEST METHOD | UNITS | TYPICAL VALUE |
|------------------------------------|------------------|-------|---------------|
| Tensile strength | ISO 527 | MPa | 74.8 |
| Flexural strength | ISO 178 | MPa | 130.5 |
| Flexural modulus | ISO 178 | MPa | 5224 |
| Impact strength | ISO 179, Notched | kJ/m² | 12 |

Note:

1. All testing specimens were printed using a FUNMAT HT 3D PRINTER under the following conditions: Printing temperature = 270 °C, printing speed = 45 mm/s, number of shells = 2, and 100% infill. All specimens were annealed at 80 °C for 30 min and dried for 48h prior to testing.

Disclaimer

The typical values presented in this document are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End-use performance of printed parts properties can be impact by, but not limited to, part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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