# INTAMSYS® PEKK

**INTAMSYS® PEKK** is a high performance thermoplastic, **P**oly**E**ther**K**etone**K**etone (PEKK). It has highly stable chemical backbone. Its semi crystalline structure in solid state offers an outstanding combination of mechanical and thermal strength together with chemical and fire resistance.

| PHYSICAL PROPERTIES | TEST METHOD | UNITS | TYPICAL VALUE |
|---|---|---|---|
| Density | ISO 1183，Crystalline | $g/cm^3$ | 1.29 |
| Glass transition temperature | ISO 11357 | ℃ | 160 |
| Melting Point | ISO 11357 | ℃ | 335 |
| Heat Deflection Temperature | ISO 75-f, 1.8 MPa | ℃ | 139 |

| CHANICAL PROPERTIES | TEST METHOD | UNITS | TYPICAL VALUE | |
|---|---|---|---|---|
| | | | BEFORE ANNEALING | AFTER ANNEALING |
| Tensile strength | ISO 527 | MPa | 76.5 | 100.4 |
| Bending strength | ISO 178 | MPa | 158.1 | 203.2 |
| Bending modulus | ISO 178 | MPa | 4276 | 5220 |
| Impact strength, Notched | ISO 179 | $kJ/m^2$ | 7.2 | 5.2 |

**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.

Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of INTAMSYS materials for the intended application. INTAMSYS makes no warranty of any kind, unless announced separately, to the fitness for any particular use or application. INTAMSYS shall not be made liable for any damage, injury or loss induced from the use of INTAMSYS materials in any particular application.