



## Technical Data Sheet : CreatBot PEI 1010

Date: 12.04.2022

Version No: 2.0

| Physical Properties | Standard | Typical Value | Unit              |
|---------------------|----------|---------------|-------------------|
| Density             | ISO1183  | 1.27          | g/cm <sup>3</sup> |

| Mechanical Properties | Standard | Typical Value | Unit |
|-----------------------|----------|---------------|------|
| Tensile Strength      | ISO527   | 73            | MPa  |
| Tensile Modulus       | ISO527   | 2500          | MPa  |
| Flexural Strength     | ISO178   | 110           | MPa  |
| Flexural Modulus      | ISO178   | 2520          | MPa  |

| Thermal Properties                  | Standard | Typical Value | Unit |
|-------------------------------------|----------|---------------|------|
| Deflection Temperature<br>(0.45MPa) | ISO75    | 211           | °C   |
| Glass Transition<br>Temperature     | DSC      | 217           | °C   |

| Printed Specimen Conditions |                   |
|-----------------------------|-------------------|
| Printer                     | CreatBot PEEK-300 |
| Nozzle Temperature          | 390°C             |
| Bed Temperature             | 150°C             |
| Print Speed                 | 20mm/s            |
| Infill                      | 100%, +/- 45°     |
| Nozzle size                 | 0.4mm             |
| Layer height                | 0.15mm            |