

Material Data Sheet - 3Dee PLA



Material: polylactic acid (PLA)

Mechanical/Physical Properties

| Property* | | Test method |
|------------------------|----------|-------------|
| Specific Gravity | 1.24 | D792 |
| Heat Distortion Temp.* | 55 °C | E2092 |
| Glass Trans. Temp. | 55-60 °C | D3418 |
| Tensile Strength | 60 MPa | D882 |
| Flexural Strength | 83 MPa | D790 |
| Tensile Modulus | 3.6 MPa | D882 |
| Flexural Modulus | 3.8 MPa | D790 |
| Tensile Elongation | 6% | D882 |
| Notched Izod Impact | 16 J/m | D256 |

*Typical properties for injection molded amorphous bars; not to be construed as specifications.

**66 psi (0.45 MPa)

Pigment Quality

| Property | Test method |
|----------------------------------|-------------|
| Highest pigment heat stability | DIN54001 |
| Highest pigment weather fastness | DIN54001 |
| Highest pigment light fastness | DIN53388 |

Material Safety

| | |
|------------------|-----|
| RoHS compliance | yes |
| REACH compliance | yes |

The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. End-use material performance can be impacted by, but not limited to part design, end-use conditions, test conditions, etc. Actual values will vary with build conditions. Product specifications are subject to change without notice. The performance characteristics of these materials may vary according to application, operating conditions, or end-use. Each user is responsible for determining that the material is safe, lawful and technically suitable for the intended application, as well as for identifying the proper disposal method consistent with applicable environmental laws and regulations. 3Dee makes no warranties of any kind, express or implied including but not limited to the warranties of merchantability, fitness for a particular use.