



THE **LARGE-SCALE** FFF 3D-PRINTER
FOR **PROFESSIONAL** AND **INDUSTRIAL** USE.

TECHNICAL DATA SHEET
BigRep PLX

PLX is a 3D biomaterial grade filament combining resistance, mechanical rigidity and fast printability.

Physical Properties

Material	PLA
Filament Net Weight:	2.5, 4.5 and 8.0 kg
Diameter	2.85 mm
Density (ISO 1183)	1.25 g/cm³
Melting temperature (DSC)	170 - 190 °C
Vicat Softening Temperature (ISO 306)	n.a. °C

Recommended Printing Conditions (Original BigRep factory files for the material are available from BigRep Global Support)

Nozzle temperature	200 - 220 °C
Heating bed temperature	50 - 70 °C
Environmental temperature	n.a. °C
Printing speed	>40 mm/s
Additional Comments	<i>Material is sensitive to moisture and should be stored under dry conditions at all times</i>

Mechanical Properties (Dry State)

Young's Modulus (ISO 527)	3150 MPa
Tensile Strength (ISO 527)	48 MPa
Elongation at break (ISO 527)	20 %
Bending Modulus (ISO 178)	2580 MPa
Bending Strength (ISO 178)	95 MPa
Charpy Impact strength (ISO 179)	20 kJ/m²
HDT / B (ISO 75)	n.a. °C

Keep sealed in an air tight container, away from humidity.
Store at around room temperature and protect from direct heat or sunlight.

BigRep GmbH
Gneisenaustraße 66
10961 Berlin – German

BigRep GmbH Management: Martin Back, Court of Registration: Amtsgericht Charlottenburg HRB 155360B Registered Office: Berlin