Material Datasheet



PLA

PLA is the most commonly used material in 3D Printing. It's biodegradable and very strong. The perfect choice for printing large objects thanks to its low thermal expansion (little to no warping) and for printing tiny parts because of its low melting temperature.

Common Applications

- Test and calibration items
- Dimensionally accurate assemblies
- Decorative Parts
- Cosplay Props

Physical Properties	Standard	Unit	Typical Value
Density	ASTM D792	g/cm ³	1.24
Melt Flow Index	ASTM D1238	g/10 min	2(190°C/2.16Kg)

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength	ASTM D882	MPa	60
Elongation at Break	ASTM D882	%	29
Flexural Strength	ASTM D790	MPa	84
Flexural Modulus	ASTM D790	MPa	3642
Izod Impact Strength	ASTM D256	KJ/m^2	7

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	ASTM D3418	°C	55-60