Xometry

Datasheet

Injection Molding

PLA

Key Features

Stiffness • Transparency • Sustainable source •Biodegradable

Applications

End-use parts • Packaging • Consumer goods Healthcare

Product Description

PLA is a biodegradable, high-clarity polylactic acid (PLA) resin known for its excellent transparency, stiffness, and low carbon footprint. This environmentally friendly material is widely used in the packaging industry for biodegradable food containers and films, consumer goods such as disposable cutlery, agriculture for mulch films, and healthcare for disposable medical devices.

Properties*

Tensile strength (yield)	62 MPa
Elongation at break	3.5%
Flexural strength	108 MPa
Flexural modulus	3,600 MPa
Notched Izod Impact	16 J/m
Heat distortion temperature	55°C
Density	1.24 g/cm²

*Based on material Ingeo™ 3001D

Note: All material data listed in Xometry's data sheets is sourced from trusted Original Equipment Manufacturers (OEMs), material distributors, and databases.