Xometry

Datasheet

PLA-FDM

Key Features

Low shrinkage • Wide range of colours

Applications

Prototyping • Consumer goods

Product Description

PLA offers good tensile strength and surface quality, making it easy to work with at high print speeds. It's user-friendly for home and office environments, enabling the creation of good resolution parts. With a wide range of color options available, PLA is suitable for various applications including household tools, toys, educational projects, show objects, prototyping and architectural models.

Properties

Tensile modulus	2,346.5 MPa
Tensile strength	49.5 MPa
Elongation at break	45.6 %
Flexural strength	103 MPa
Flexural modulus	3,150 MPa
Melting temperature	45- 160°C
Glass transition temperature	~60°C
Density	1.24 g/cm^3
Hardness	83D

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