

Ignis PLA



Advanced series

Ignis PLA is a temperature resistant PLA based material with excellent mechanical strength and toughness for high performance applications. It is EU approved for food contact, formulated to be UV resistant and has a HDT/B rating of 95°C* without annealing making this material one of the most versatile PLA based material on the market.

Ignis PLA is available in black and white. Filament should be stored into their original sealed package at room temperature (15-30°C) and dry environment. Following this storage recommendation, the filament will have a minimum shelf life of 12 months.

*with a minimum wall thickness of 3mm

General

Availability • North America • Latin America

Applications • Functional Parts • Jigs and Fixtures • Prototyping • Household Goods

Mechanical Properties	Value	Test Method
Tensile Strength	52	ASTM D638
Elongation at Break	5%	ASTM D638
Flexural Strength	80 MPa	ASTM D790
Flexural Modulus	2600 MPa	ASTM D790
HDT/B	95°C	ASTM D648

Samples printed with the following parameters: 100% infill; rectilinear; 2 shells. Conditioned under ambient conditions for 24 hours prior to testing.

Thermal Properties	Value	Test Method
Glass Transition Temperature	60°C	ASTM D3418
Melt Flow Rate (225°C)	6g/10min	ASTM 1238
Melt Temperature	≥170°C	ASTM D3418
Specify Gravity	1.24	ASTM D792



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Parameter	Recommended Setting
Nozzle Temperature	230-260°C
Bed Temperature	40-60°C
Bed Adhesive	None
Print Speed	>80mm/s
Cooling	0-50%
Layer Height	≥0.1mm
Nozzle Diameter	≥0.2mm

To ensure optimal material properties the material should always be kept dry. Drying recommendations: 60°C /140°F in a hot air dryer or vacuum oven for 4 to 16 hours.

Disclaimer

The data presented in this document are based on our current knowledge and experience and is intended solely for information and comparison purposes only. Product specifications are subject to change without notice. They should not be used for project specifications or its quality evaluation. The material's actual properties depend on the printing process conditions, the design structure, test conditions, etc.

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