



3D Printer Filament PLA

Made by Mitsubishi Chemicals Performance Polymers

RAW MATERIAL

PLA - Polylactic Acid

TECHNICAL DATASHEET

APPLICATION

3D Printing

Material Specifications

SIZE	Ø TOLERANCE	ROUNDNESS
1,75mm	±0,05mm	≥ 95%

Material Properties

DESCRIPTION	TEST METHOD	TYPICAL VALUE
Specific gravity	ISO 1183	1,24 g/cc
MFR 210°C/2,16 kg	ISO 1133	9,56 gr/10 min
Tensile Strength at Yield (MPa)	ISO 527	70 Mpa
Strain at yield	ISO 527	5%
Strain at break	ISO 527	20%
E-Modulus	ISO 527	3120 Mpa
Impact strength - Charpy method 23°C	ISO 179	3,4 kJ/m2
Moisture absorption	ISO 62	1968 ppm
Printing temp.	DF	205±10°C
Melting temp.	ISO 11357	115±35°C
Vicat softening temp.	ISO 306	60°C
Glass transition temp.	ISO 11357	57°C

RECOMMENDATIONS

Due to its low tendency to warp, PLA can also be printed without a heated bed.
Heated bed recommended temp. is 35-60°C.

STORAGE INSTRUCTIONS



OPTIMAL STORAGE
TEMPERATURE



UNUSED
EXPIRATION DATE



COOL, DRY PLACE
AWAY FROM SUNLIGHT

