

Product description:

NATURAL PLA is a polylactic acid polymer specifically designed for FDM/FFF 3D printing. This grade of PLA is known for its ease of printing, good layer adhesion, and glossy surface finish. NATURAL PLA is biodegradable under industrial composting conditions and is derived from renewable resources such as corn starch. It is primarily used for prototyping, decorative objects, and non-functional parts.

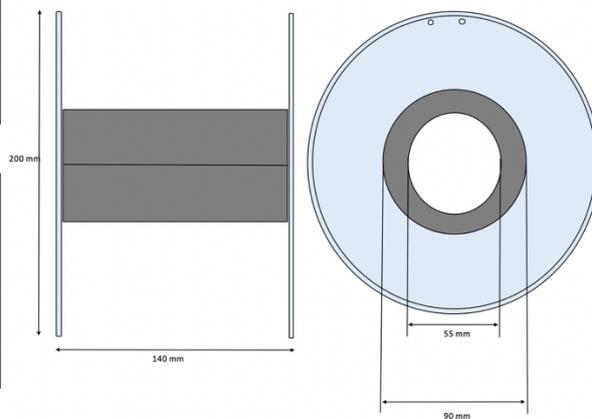
Storage:

Store in dry area, in a closed container away from moisture.

PRODUCT PARAMETERS

| Parameter | Value |
|-------------------------|----------|
| Filament diameter [mm] | 1.75 |
| Diameter tolerance [mm] | +/- 0,01 |
| Oval tolerance [mm] | +/- 0,01 |

| | |
|--|--------------------------|
| Spool dimensions [mm] (ϕ / height / hole ϕ) | 200/140/55 |
| Spool weight [g] | - |
| Spool material | Transparent ABS/PS Black |
| Weight with packaging [g] | 3 000 |
| Net weight [g] | 2 500 |
| Box dimensions [mm] | - |



RECOMMENDED PRINTING PARAMETERS

| Parameter | Value |
|--------------------------|--|
| Print temperature [°C] | 200-230 |
| Bed temperature [°C] | None needed or 50-60 if applicable |
| Cooling [%] | 100 recommended for better surface quality |
| Closed chamber | Not required, but may improve print |
| Chamber temperature [°C] | 30-60 |
| Printing Speed [mm/s] | 40-100 |
| Nozzle type | - |

PHYSICAL PARAMETERS OF THE MATERIAL

| Parameter | Value | Unit | Test method |
|-----------------------|-------|---------|-------------------------------------|
| Density | 1.24 | g/cc | D792 |
| Melt flow rate | 6 | g/10min | D1238 |
| Vicat softening temp. | 55-60 | °C | ISO 306 VST/A/50 (50°C/h,10N) |
| Tensile modulus | 3600 | MPa | D882 |
| Tensile strength | 53 | MPa | D882 |
| Elongation at break | 6 | % | D882 |
| Impact strength | 16 | J/m2 | ISO 179 Charpy Notched @23°C (73°F) |

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of NATURAL PLA parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use.