

FLIBOX PLA (PLA PRO) is one kind of composite of PLA (Polylactic Acid) special addition to make PLA melting lower, bright, lower viscosity and easy to remove support. It's molecular weight is uniform distributed making the molecules in the material more compatible.

Controlled Diameter $\pm 0.03\text{mm}$ / Filament Certificate: SVHC MSDS / MFI is lower than normal PLA

| Physical Properties | Typical Value | Test Method |
|---------------------|---------------|-------------|
|---------------------|---------------|-------------|

| | | |
|------------------|----------------------------|-----------------|
| Material Density | 1.21-1.30g/cm ³ | GB/T1033.1-1986 |
|------------------|----------------------------|-----------------|

| Mechanical Properties | Typical Value | Test Method |
|-----------------------|---------------|-------------|
|-----------------------|---------------|-------------|

| | | |
|--|---------------------|-----------------|
| Tensile strength | 17-18 | 25um ASTM D1992 |
| Tensile strength | $\geq 50\text{Mpa}$ | GB/T1040-1992 |
| Elongation at break | 4.6-5.3% | GB/T1040.1-1992 |
| Impact intensity (KJ/M,Izod ²) | 1-3 | GB/T1043-1992 |

| Thermal Properties | Typical Value | Test Method |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

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|------------------------|--------------------|------------------|
| Vicat softening point | 61.5 °C | GB/T19466.2-2004 |
| Melting Index(g/10min) | 4-6(190 °C,2.15kg) | GB/T3682-2000 |
| Melting point | 178.5 °C | GB/T19466-2004 |

| Printing Properties | Typical Value |
|---------------------|---------------|
|---------------------|---------------|

| | |
|----------------------|-------------|
| Printing temperature | 190-220 °C |
| Hot Pad | 0-40 °C |
| Fan layer | off(Max20%) |

| N.W | G.W. | Diameters | Packing Characteristics |
|-------|-------|-----------|-------------------------|
| 1000g | 1200g | 1.75mm | SmartBag, Security Seal |

Controlled Filament Quality and Tolerance in 5 steps:

- 58um Stainless Steel Filters to ensure no impurities.
- Online observation and warning.
- Control Diameter. Patent to controlled tolerance under $\pm 0.03\text{mm}$.
- Filament Quality Inspection.
- Printing Test.



Note: None of our filament is produced with recycled material in order to get the highest quality filaments.