

Technical Data Sheet



Product name: Premium PLA

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Version: v2

Premium PLA is a high-end slightly modified and yet still as pure as possible PLA (Poly-Lactic Acid) type of 3D printer filament. Premium PLA has an excellent thermal stability and slightly faster crystallization process than modified PLA type of filaments. This makes Premium PLA more suitable for 3D printing slightly more complex structures which require an increased hardening process of the layered filament.

Premium PLA is nearly warp-free and therefore it will not deform after cooling. The Premium PLA colour palette is semi-transparent coloured, as the PLA filament is kept as pure as possible.

Properties	Typical value	Test Method	Test condition
Physical			
Specific gravity	1.24 g/cc	ASTM D1505	-
Melt flow rate	6.0 g/10min	-	-
Water absorption	-	-	-
Moisture absorption	-	-	-
Mechanical			
Impact strength	6.0KJ/m ²	-	-
Tensile strength	105 Mpa (MD)	ASTM D882	-
Tensile modulus	3145 Mpa (MD)	ASTM D882	-
Elongation at break	175% (MD)	ASTM D882	-
Flexural strength	± 54.4 Mpa	-	-
Flexural modulus	± 2364.3 Mpa	-	-
Hardness	-	-	-
Thermal			
Print temperature	± 190- 225° C	-	-
Melting temperature	± 210 ± 10° C	-	-
Viscat softening temp.	± 62° C	ISO 306	-
Optical			
Haze	2.1%	ASTM D1003	-
Transmittance	-	-	-
Gloss	80	ASTM D1003	Gloss, 20°

Product details, certifications and compliance	Diameter	Tolerance	Roundness
HS Code	1.75mm	± 0.05mm	≥ 95%
REACH compliant	2.85mm	± 0.10mm	≥ 95%
RoHS certified			
FDA compliant			

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