

Technical Data Sheet



Product name: Premium PLA

Version: v3

Premium PLA is a high-end general purpose Poly-Lactic Acid type of 3D printer filament which is more purer and lesser modified than our EasyFil PLA for instance.

Premium PLA is a slightly harder PLA with an excellent thermal stability and a slightly faster crystallisation process of the 3D printed layers and is often used for large(r) scale prototyping on industrial-sized 3D printers. Therefore Premium PLA is available on large spool sizes.

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			

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