

3D Power Hyper PLA

3D Power Hyper PLA is first high performance material in 3D Power portfolio. This filament is perfect for high speed printing (up to 350mm/s). However, Hyper PLA offers enhanced mechanical durability and temperature resistance compared to Basic PLA.

The impact strength of 3D Power Hyper PLA, as measured by the Izod method, is nearly 1.5 times greater than that of standard ABS. Moreover, after undergoing crystallization, its impact strength exceeds standard ABS by more than double.

Filament specification

Property	Value
Diameter:	1.75mm
Diameter tolerance:	± 0.03mm
Ovality:	≥ 95%
Net weight:	750g
Nozzle temperature:	195-230°C
Bed temperature:	30-60°C
Cooling:	50-100%
Print speed:	40-350mm/s

Technical data

Property	Typical value	Test method
Density	1.22 g/cm ³	D 792
MFR (210°C / 2,16kg)	11-15 g/10min	D 1238
Heat Deflection Temperature (0.45MPa)	58°C	E 2092
Heat Deflection Temperature (0.45MPa) – cristalized	83°C	E 2092
Flexural strength – cristalized	75 MPa	D 790
Tensile strength – cristalized	42 MPa	D 882
Flexural modulus – cristalized	2368 MPa	D 790
Notched Izod impact strength – cristalized	158 J/m	D 256

Disclaimer

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