



# CREAMELT® PLA-HI

**BIOBASED 3D PRINTING FILAMENT WITH HIGH IMPACT STRENGTH AND ACCURATE PRINTING QUALITY**

CREAMELT® PLA-HI is a biobased 3D printing filament with high impact strength. It is made from natural resourced PLA (Polylactic Acid), which is additionally modified with impact modifier that makes it more impact resistant rather than most other PLA on the market.

PLA-HI is easy to print with and gives accurate measurements due to minimal shrinkage of the material when cooling down. It has interesting mechanical properties, good layer adhesion and works with most 3D printers on the market.

CREAMELT® PLA-HI gives you the ability to print functional parts with smooth surfaces and high impact resistance.

**FILAMENT SIZE**  
Ø1.75 mm / Ø2.85 mm

**AVAILABLE COLORS**



## SPECIFICATIONS

### RECOMMENDED PRINT PARAMETERS

PRINTING TEMPERATURE	200...220 °C
PLATFORM TEMPERATURE	50...60 °C
PRINT SPEED	40...150mm/s

### MECHANICAL PROPERTIES <sup>1)</sup>

TENSILE MODULUS	2440 MPa
TENSILE STRENGTH	40 MPa
TENSILE STRAIN AT BREAK	8...13 %
IMPACT STRENGTH <sup>2)</sup>	80 kJ/m <sup>2</sup>
SHORE HARDNESS	-

### PHYSICAL & THERMAL PROPERTIES

DENSITY	1240 kg/m <sup>3</sup>
MELTING POINT	145...160 °C
GLASS TRANSITION POINT	55...60 °C

<sup>1)</sup> AS MEASURED BY PRINTED TENSILE BARS AT 23°C  
<sup>3)</sup> DIN EN ISO 179/1eU CHARPY UNNOTCHED

