



# Perform✓PLA Tough

## Technical Data Sheet

- Perform✓PLA Tough is an easy to print filament with high strength, good impact resistance and low warpage.
- Perform✓PLA Tough is ideal for use in prototypes with minimal functional requirements.

### Typical Properties

Property	Test Method	Unit	Typ. Value
Nominal Diameter	-	mm	1.75 / 2.85
Density	ISO 1183	gr/cm <sup>3</sup>	1.21
Tensile Modulus	ISO 527	MPa	2700
Tensile Strength	ISO 527	MPa	46
Impact strength Charpy	ISO 179	KJ/m <sup>2</sup>	23.1
Flexural Strength	ISO 178	MPa	76
Elongation	ISO 527	%	27%

\* The above are typical properties for a printed specimen

### Recommended Settings

Parameter	Unit	Set Value
Nozzle Temp.	°C	210±10
Plate Temp.	°C	≥60
Cooling	-	Medium/High
Print Speed	mm/sec	Medium/High
Retraction (Bowden)	mm	>5
Retraction (Direct)	mm	2±0.5

- Perform✓PLA Tough adheres well when using PEI surface, Kapton Tape or glue stick on a heated glass plate.