

Public printing recommendation

ProtoPasta HTPLA

Blood of My Enemies

PLA Red

MaterialID MAT0069



3DPiceland Labs
Generated with 3DPiceland Engineering Platform v60.0.6
WORKFLOW-RELIABILITY - Bug Fixes and Workflow
Reliability
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Guidance boundary: values below are shared base-material guidance resolved only through the canonical BaseMaterialId link. They are not manufacturer-, spool- or printer-specific validated settings. Missing fields remain Not recorded.

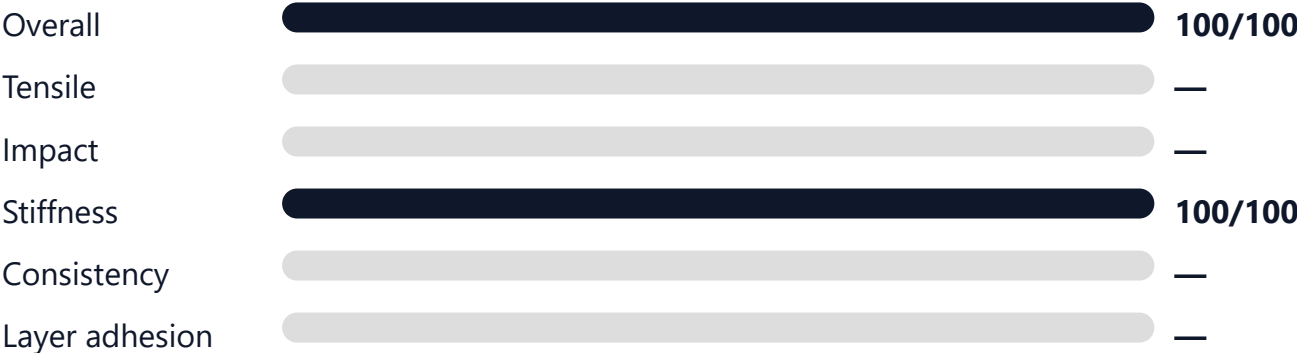
Overall
100/100

Engineering axes
1/5

Public rank
1 / 234

MSRP USD/kg
91.74

Engineering profile



Recommended applications

- Rigid brackets, fixtures and shape-stable prototypes
- Cosmetic parts, concept models or low-load prototypes
- Avoid high tensile load applications
- Avoid high impact components

Measured strengths

- Stiffness: 100/100. Stiffness is a relative advantage in this comparison group.

Limitations

- Main watch item: Overall at 100/100.

Engineering trade-offs

- Stiffness is useful for shape stability, but impact tolerance is a separate limitation.

Base-material printing guidance

Guidance	Minimum	Recommended	Maximum	Unit
Nozzle temperature	195	230	230	°C
Bed temperature	60	60	70	°C
Print speed	55	165	165	mm/s
Cooling	20	80	85	%
Guidance	Value			Unit
Cooling guidance	High			
Drying temperature	50			°C
Drying time	5			hours
Enclosure	Not required			
Printer / G-code reference	PrusaCoreOneL			
Slicer profile reference	Prusament PLA			

Print workflow checks

- Confirm nozzle temperature, bed temperature, speed, cooling and drying requirements from the manufacturer profile or spool label.
- Print a small validation part before committing to a long, costly or safety-relevant print.
- Orient the part so the governing load does not rely on an unverified or weak engineering axis.
- Layer-adhesion evidence is weak; avoid critical Z-axis loading without additional validation.
- Repeatability is low on the internal scale; run extra validation specimens before relying on the profile.

Decision guidance

- Use this material when its best feature aligns with the part requirement.
- Do not choose it as a tensile-strength benchmark material.

- Avoid selecting it for impact-focused testing or shock-loaded designs.

Stronger same-family alternatives

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
Confirm exact settings against the manufacturer profile, spool label and actual printer/material combination. Results do not replace application-specific validation.					

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