

ProtoPasta HTPLA
Gloop! Purple PLA
Purple

MaterialID MAT0068



3DPiceland Labs
Generated with 3DPiceland Engineering Platform v60.0.6
WORKFLOW-RELIABILITY - Bug Fixes and Workflow
Reliability
2026-08-25 19:04:35

Traceability boundary: canonical per-module measured dates are shown below. Session identifier, time of day, operator, printer/slicer profile and environmental conditions are Not recorded and are never inferred.

Measurement provenance

Canonical SQLite measured dates use ISO format; missing dates remain Not recorded.

Module	Measured date
Tensile	Not recorded
Impact	Not recorded
Stiffness	Not recorded

Status Complete	Result modules 3/3	Specimen/result records 40	Public details Approved
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Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	12,705 MPa	3,836 MPa	0,302%	10	10/10	OK
Tensile	Flat	44,348 MPa	5,583 MPa	0,126%	9	9/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	165,62 kJ/m ²	21,418 kJ/m ²	0,129%	10	10/10	OK
Impact	Flat	158,821 kJ/m ²	41,539 kJ/m ²	0,262%	10	10/10	OK
Stiffness	Three-point bend	3354,768 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	99, 75, 61, 38, 101, 74, 79, 128, 73, 98
Tensile	Flat force inputs (N)	296, 281, 312, 302, 291, 327, 302, 199, 285,
Impact	Upright needle inputs (%)	8,00, 7,50, 11,00, 11,00, 10,00, 10,00, 10,50, 11,00, 10,00, 9,00
Impact	Flat needle inputs (%)	7,00, 8,00, 10,00, 13,00, 7,50, 14,00, 9,00, 8,50, 7,00, 10,00
Stiffness	Revolutions / degrees	1 / 190

Approved test notes

Method and equipment context

Purpose-built tensile, pendulum impact and three-point bend apparatus are used with the governed Settings Manager constants consumed by ResultsService. Results are comparative and do not claim accredited-laboratory equipment.

[Testing methodology](#) · [Engineering methodology whitepaper](#) · [Download PDF](#)

reports/test-sessions/MAT0068/