

Public test session report

Prusa3D Buddy3D Pearl Red PLA Red

MaterialID MAT0138



3DP Iceland Labs

Generated with 3DP Iceland 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
41

Public details
Approved

Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	14,166 MPa	4,868 MPa	0,344%	10	10/10	OK
Tensile	Flat	41,421 MPa	5,549 MPa	0,134%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	151,096 kJ/m ²	30,294 kJ/m ²	0,2%	10	10/10	OK
Impact	Flat	211,082 kJ/m ²	25,741 kJ/m ²	0,122%	10	10/10	OK
Stiffness	Three-point bend	3324,545 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	72, 66, 118, 142, 102, 57, 103, 131, 52, 78
Tensile	Flat force inputs (N)	249, 242, 297, 247, 283, 239, 210, 306, 308, 312
Impact	Upright needle inputs (%)	7,00, 9,00, 11,00, 7,00, 7,00, 9,00, 12,00, 8,00, 10,50, 9,00
Impact	Flat needle inputs (%)	10,00, 12,00, 10,00, 13,00, 13,00, 14,00, 12,00, 14,00, 14,00, 12,50
Stiffness	Revolutions / degrees	1 / 195

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.

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