

## Public test session report

# Prusa3D Buddy3D PLA Silk Copper

MaterialID MAT0085



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  
**40**

Public details  
**Approved**

## Specimen and result quality

| Module  | Orientation | Average    | Std. dev. | CV     | Specimens | Confidence | Validation |
|---------|-------------|------------|-----------|--------|-----------|------------|------------|
| Tensile | Upright     | 5,506 MPa  | 2,267 MPa | 0,412% | 10        | 10/10      | OK         |
| Tensile | Flat        | 22,548 MPa | 6,171 MPa | 0,274% | 10        | 10/10      | OK         |

| Module    | Orientation      | Average                   | Std. dev.                | CV     | Specimens | Confidence | Validation |
|-----------|------------------|---------------------------|--------------------------|--------|-----------|------------|------------|
| Impact    | Upright          | 100,808 kJ/m <sup>2</sup> | 22,486 kJ/m <sup>2</sup> | 0,223% | 9         | 9/10       | OK         |
| Impact    | Flat             | 243,729 kJ/m <sup>2</sup> | 19,873 kJ/m <sup>2</sup> | 0,082% | 10        | 10/10      | OK         |
| Stiffness | Three-point bend | 2753,914 MPa              | n/a                      | n/a    | 1         | Complete   | OK         |

## Recorded native inputs

| Module    | Input set                 | Recorded values                                                      |
|-----------|---------------------------|----------------------------------------------------------------------|
| Tensile   | Upright force inputs (N)  | 37, 44, 46, 42, 14, 23, 30, 15, 56, 51                               |
| Tensile   | Flat force inputs (N)     | 158, 137, 112, 109, 111, 202, 177, 196, 174, 90                      |
| Impact    | Upright needle inputs (%) | 5,00, 5,00, 5,00, 8,00, 7,00, 8,00, 5,00, 5,00, 6,00,                |
| Impact    | Flat needle inputs (%)    | 13,00, 14,00, 13,00, 16,00, 15,00, 16,00, 14,50, 13,00, 14,00, 15,00 |
| Stiffness | Revolutions / degrees     | 1 / 310                                                              |

## 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](#)

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