

# Prusa3D Buddy3D

## Pearl Green PLA

### Green

MaterialID MAT0221



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   | 2026-08-04    |
| Impact    | 2026-08-04    |
| Stiffness | 2026-08-04    |

|                           |                              |                                         |                                   |
|---------------------------|------------------------------|-----------------------------------------|-----------------------------------|
| Status<br><b>Complete</b> | Result modules<br><b>3/3</b> | Specimen/result<br>records<br><b>40</b> | Public details<br><b>Approved</b> |
|---------------------------|------------------------------|-----------------------------------------|-----------------------------------|

## Specimen and result quality

| Module  | Orientation | Average      | Std.<br>dev. | CV     | Specimens | Confidence | Validation |
|---------|-------------|--------------|--------------|--------|-----------|------------|------------|
| Tensile | Upright     | 8,835<br>MPa | 3,152<br>MPa | 0,357% | 9         | 9/10       | OK         |
| Tensile | Flat        | 48,85<br>MPa | 4,085<br>MPa | 0,084% | 10        | 10/10      | OK         |

| Module    | Orientation      | Average                   | Std. dev.                | CV     | Specimens | Confidence | Validation |
|-----------|------------------|---------------------------|--------------------------|--------|-----------|------------|------------|
| Impact    | Upright          | 123,751 kJ/m <sup>2</sup> | 15,581 kJ/m <sup>2</sup> | 0,126% | 10        | 10/10      | OK         |
| Impact    | Flat             | 272,094 kJ/m <sup>2</sup> | 18,12 kJ/m <sup>2</sup>  | 0,067% | 10        | 10/10      | OK         |
| Stiffness | Three-point bend | 3237,057 MPa              | n/a                      | n/a    | 1         | Complete   | OK         |

## Recorded native inputs

| Module    | Input set                 | Recorded values                                  |
|-----------|---------------------------|--------------------------------------------------|
| Tensile   | Upright force inputs (N)  | 76, 48, 62, , 21, 74, 51, 90, 49, 46             |
| Tensile   | Flat force inputs (N)     | 320, 304, 323, 347, 309, 288, 344, 353, 319, 269 |
| Impact    | Upright needle inputs (%) | 8, 8, 7, 7,5, 7,5, 6, 6, 9, 7,5, 7               |
| Impact    | Flat needle inputs (%)    | 16, 17, 15, 17, 17, 16, 14, 16, 17, 15           |
| Stiffness | Revolutions / degrees     | 1 / 210                                          |

## 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/MAT0221/