Public test session report

Thorwell Standard Wood PLA Wood Brown

MaterialID MAT0153

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
39

Public details
Approved

Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	2,576 MPa	0,929 MPa	0,361%	8	8/10	OK
Tensile	Flat	21,549 MPa	4,34 MPa	0,201%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	175,902 kJ/m²	21,632 kJ/m²	0,123%	10	10/10	OK
Impact	Flat	248,028 kJ/m²	28,304 kJ/m²	0,114%	10	10/10	OK
Stiffness	Three-point bend	2493,408 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	13, 14, 22, 22, 26, 17, 11, 9, ,
Tensile	Flat force inputs (N)	110, 179, 180, 123, 140, 174, 114, 140, 109, 132
Impact	Upright needle inputs (%)	11,00, 7,00, 10,00, 10,00, 11,00, 11,00, 11,00, 11,00, 11,00, 11,00
Impact	Flat needle inputs (%)	15,00, 16,00, 14,00, 17,00, 12,00, 12,00, 15,00, 15,00, 14,00, 16,00
Stiffness	Revolutions / degrees	2 / 20

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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