

Public test session report

Thorwell Standard Silk PLA Silk Blue

MaterialID MAT0147



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
37

Public details
Approved

Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	3,23 MPa	1,088 MPa	0,337%	6	6/10	OK
Tensile	Flat	15,319 MPa	3,633 MPa	0,237%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	68,743 kJ/m ²	37,198 kJ/m ²	0,541%	10	10/10	OK
Impact	Flat	212,835 kJ/m ²	42,48 kJ/m ²	0,2%	10	10/10	OK
Stiffness	Three-point bend	1299,382 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	23, 20, 9, 21, 22, 31, , , ,
Tensile	Flat force inputs (N)	74, 118, 115, 48, 115, 112, 86, 116, 96, 116
Impact	Upright needle inputs (%)	1,00, 4,00, 4,50, 7,00, 1,00, 1,50, 5,00, 6,50, 5,50, 5,00
Impact	Flat needle inputs (%)	13,00, 13,00, 15,00, 13,50, 14,00, 14,00, 14,00, 8,00, 13,00, 8,00
Stiffness	Revolutions / degrees	3 / 340

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/MAT0147/