

Public test session report

Winkle Silk PLA Silk Green

MaterialID MAT0089



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
39

Public details
Approved

Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	7,706 MPa	1,225 MPa	0,159%	10	10/10	OK
Tensile	Flat	34,453 MPa	3,598 MPa	0,104%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	16,62 kJ/m ²	4,452 kJ/m ²	0,268%	8	8/10	OK
Impact	Flat	199,997 kJ/m ²	52,976 kJ/m ²	0,265%	10	10/10	OK
Stiffness	Three-point bend	2733,514 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	49, 42, 53, 54, 61, 39, 59, 49, 39, 56
Tensile	Flat force inputs (N)	237, 242, 223, 210, 196, 177, 232, 237, 255, 231
Impact	Upright needle inputs (%)	1,00, 1,50, 1,00, 1,00, 1,00, 1,00, 0,50, 1,00, ,
Impact	Flat needle inputs (%)	7,00, 6,00, 13,50, 15,00, 14,00, 14,00, 12,50, 13,00, 13,00, 10,00
Stiffness	Revolutions / degrees	1 / 315

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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