

Public test session report

Polymaker PolyTerra PLA Plus Green

MaterialID MAT0097



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
38

Public details
Approved

Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	5,779 MPa	1,898 MPa	0,328%	7	7/10	OK
Tensile	Flat	26,517 MPa	4,374 MPa	0,165%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	66,091 kJ/m ²	12,185 kJ/m ²	0,184%	10	10/10	OK
Impact	Flat	231,702 kJ/m ²	30,328 kJ/m ²	0,131%	10	10/10	OK
Stiffness	Three-point bend	2050,136 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	32, 33, 31, 22, 36, 55, 54, , ,
Tensile	Flat force inputs (N)	193, 199, 184, 178, 124, 185, 209, 132, 170, 150
Impact	Upright needle inputs (%)	2,00, 4,00, 4,00, 4,50, 4,00, 4,00, 4,00, 4,50, 4,50, 4,00
Impact	Flat needle inputs (%)	13,50, 15,50, 15,00, 15,00, 12,00, 12,50, 11,50, 11,00, 15,50, 15,00
Stiffness	Revolutions / degrees	2 / 180

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.

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