

Public test session report

Polyalchemy Elexir Fire PLA Silk Red

MaterialID MAT0092



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
36

Public details
Approved

Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	2,492 MPa	0,831 MPa	0,334%	5	5/10	OK
Tensile	Flat	25,548 MPa	1,147 MPa	0,045%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	20,805 kJ/m ²	13,242 kJ/m ²	0,636%	10	10/10	OK
Impact	Flat	179,058 kJ/m ²	168,011 kJ/m ²	0,938%	10	10/10	OK
Stiffness	Three-point bend	1692,773 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	11, 18, 10, 20, 22, , , , ,
Tensile	Flat force inputs (N)	170, 156, 177, 161, 171, 154, 162, 171, 168, 171
Impact	Upright needle inputs (%)	1,00, 1,00, 1,00, 1,00, 3,50, 1,00, 1,00, 1,00, 1,00, 1,00
Impact	Flat needle inputs (%)	6,00, 8,00, 8,00, 39,00, 7,00, 9,00, 5,00, 8,00, 8,50, 8,00
Stiffness	Revolutions / degrees	3 / 10

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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