

Spectrum Premium Tooling Yellow PLA Yellow

MaterialID MAT0230



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	2026-08-15
Impact	2026-08-15
Stiffness	2026-08-15

Status Complete	Result modules 3/3	Specimen/result records 41	Public details Approved
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Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	18,334 MPa	6,728 MPa	0,367%	10	10/10	OK
Tensile	Flat	40,698 MPa	7,634 MPa	0,188%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	140,813 kJ/m ²	17,104 kJ/m ²	0,121%	10	10/10	OK
Impact	Flat	193,046 kJ/m ²	19,314 kJ/m ²	0,1%	10	10/10	OK
Stiffness	Three-point bend	3237,057 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	176, 73, 149, 133, 86, 88, 84, 177, 158, 68
Tensile	Flat force inputs (N)	204, 320, 349, 190, 281, 242, 289, 274, 229, 268
Impact	Upright needle inputs (%)	7, 7, 7,5, 8, 10, 9, 8,5, 8,5, 9,5, 8,5
Impact	Flat needle inputs (%)	9,5, 12, 11,5, 11, 10, 11,5, 11,5, 11, 13, 13
Stiffness	Revolutions / degrees	1 / 210

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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