

Thorwell Standard Carbon Fiber-T PETG CF Black

MaterialID MAT0151



3DPiceland Labs
Generated with 3DPiceland Engineering Platform v60.0.6
WORKFLOW-RELIABILITY - Bug Fixes and Workflow
Reliability
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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
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Specimen and result quality

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Tensile	Upright	2,692 MPa	1,042 MPa	0,387%	6	6/10	OK
Tensile	Flat	21,241 MPa	7,35 MPa	0,346%	10	10/10	OK

Module	Orientation	Average	Std. dev.	CV	Specimens	Confidence	Validation
Impact	Upright	125,499 kJ/m ²	29,309 kJ/m ²	0,234%	10	10/10	OK
Impact	Flat	161,414 kJ/m ²	44,958 kJ/m ²	0,279%	10	10/10	OK
Stiffness	Three-point bend	2108,711 MPa	n/a	n/a	1	Complete	OK

Recorded native inputs

Module	Input set	Recorded values
Tensile	Upright force inputs (N)	22, 17, 10, 11, 17, 28, , , ,
Tensile	Flat force inputs (N)	161, 199, 113, 185, 185, 81, 63, 159, 94, 141
Impact	Upright needle inputs (%)	5,00, 8,50, 8,00, 8,00, 4,00, 7,50, 7,50, 8,00, 10,00, 8,00
Impact	Flat needle inputs (%)	5,00, 13,00, 12,00, 7,50, 12,00, 8,00, 11,00, 9,00, 11,00, 7,00
Stiffness	Revolutions / degrees	2 / 155

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/MAT0151/

