

ColorFabb XT PETG Pink

Material Engineering Report
MaterialID MAT0060

3DPiceland Engineering Platform
3DPiceland Labs

Generated with 3DPiceland Engineering Platform v60.0.6 WORKFLOW-
RELIABILITY - Bug Fixes and Workflow Reliability
Generated 2026-08-25 19:02:26

Public-data contract: This static report contains only allowlisted material identity, public links, canonical MSRP and existing Verified Material Summary / governed score outputs. It excludes raw specimen rows and non-public operational data.

TEST COVERAGE

Partial

ENGINEERING AXES

1/6

PUBLIC MSRP

\$28.34 USD/kg

Material identity

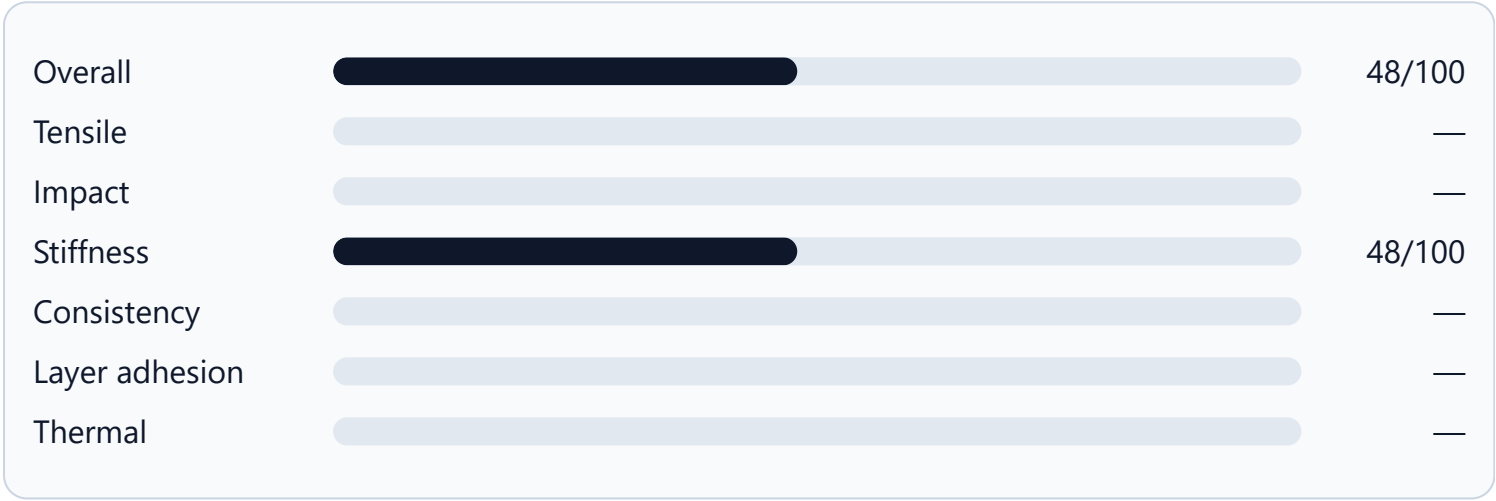
MaterialID	MAT0060
Material	ColorFabb XT PETG Pink
Manufacturer	ColorFabb
Product line	XT
Base material	PETG
Category	Standard
Variant / finish	—
Reinforcement	—
Color	Pink

Governed engineering profile

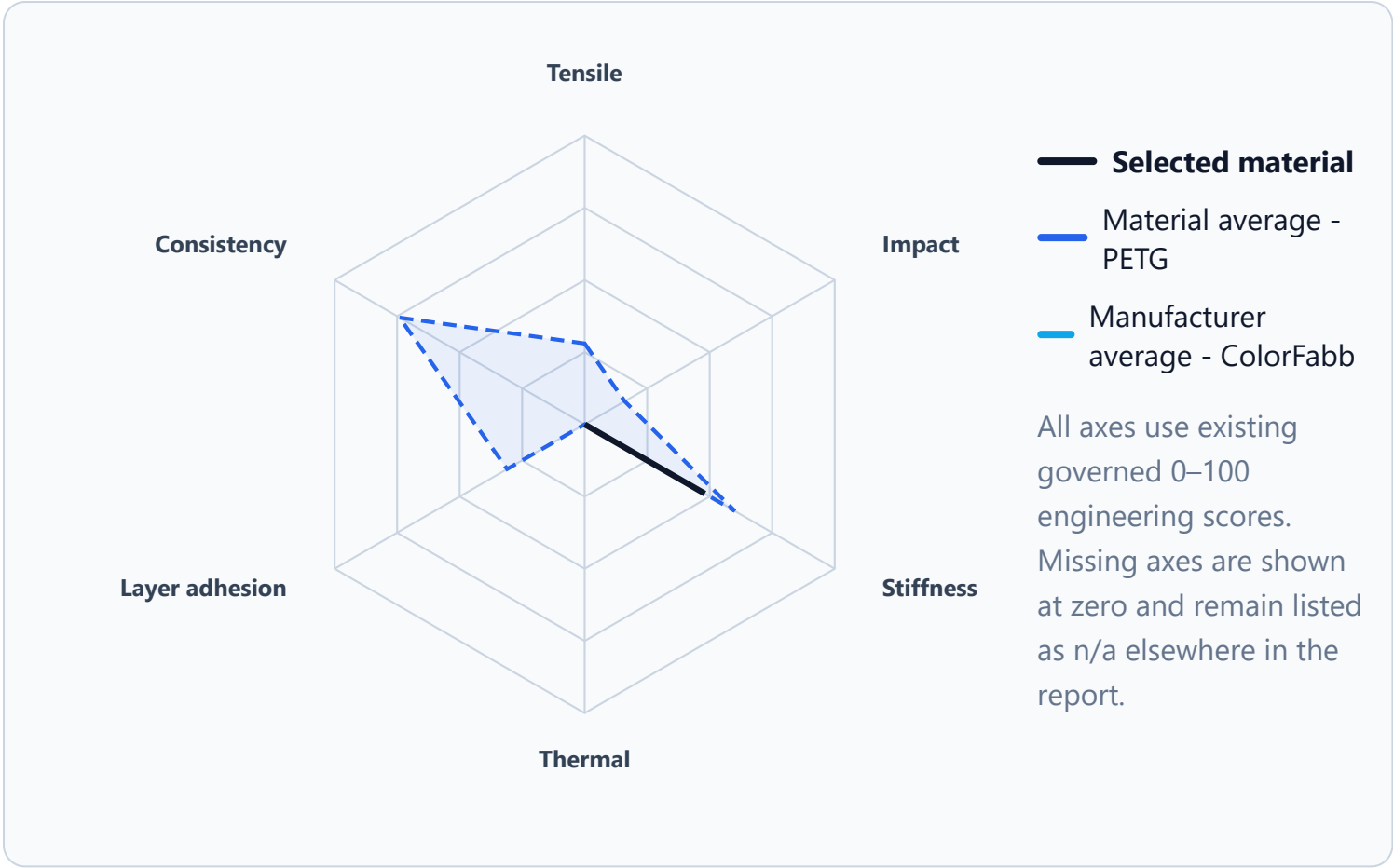
Overall	48/100
Tensile	—

Impact	—
Stiffness	48/100
Consistency	—
Layer adhesion	—
Thermal	—
Best available axis	stiffness

Engineering score profile



Engineering radar



Fixture thermal result

— · score — · method —
—

Material and manufacturer context

Metric	Selected material	Material average	Manufacturer average
Overall	48/100	42/100	48/100
Tensile	—	28/100	—
Impact	—	16/100	—
Stiffness	48/100	60/100	48/100
Consistency	—	74/100	—
Layer adhesion	—	31/100	—
Thermal	—	—	—

Verified measurement results

Existing Verified Material Summary outputs. The public renderer does not read raw specimen rows or recalculate these values.

Measurement	Average	Std. deviation	CV	Samples	Confidence
Tensile upright	—	—	—	—	—
Tensile flat	—	—	—	—	—
Impact upright	—	—	—	—	—
Impact flat	—	—	—	—	—
Stiffness modulus	1441.502 MPa	—	—	—	—
Stiffness deflection	3.765 mm	—	—	—	—

Measurement provenance

Canonical per-module measured dates from SQLite, shown in unambiguous ISO format. Missing dates are not inferred.

Module	Measured date
Tensile	Not recorded
Impact	Not recorded
Stiffness	Not recorded
Thermal	Not recorded

Engineering interpretation

Summary: ColorFabb XT PETG Pink has a specialized or limited engineering profile. It is above its material-family average by 5,9 points and above its manufacturer average by 0 points. Its strongest measured axis is Overall, while the weakest axis is Overall.

Data-driven review: ColorFabb XT PETG Pink is best understood as a limited-use material that should be validated carefully before functional use. Compared with the current verified dataset, it ranks better than 56% overall, is above the material-family average by 5,9 points, and is roughly aligned with the manufacturer average. Its strongest engineering signal is Overall, while Overall is the main limitation to consider before using it for demanding applications.

BEST FEATURE

Overall

MAIN LIMITATION

Overall

DATASET POSITION

Better than 56%

104 / 234

Strengths

- Best available signal: Overall at 48/100.

Limitations

- Stiffness: 48/100. Expect less shape stability than the stronger materials in the same family.

Engineering trade-offs

- The report should be read as a suitability warning rather than a general-purpose recommendation.

Recommended applications

- Cosmetic parts, concept models or low-load prototypes
- Avoid high tensile load applications
- Avoid high impact components

Metric rankings and percentiles

Metric	Score	Rank	Percentile
Overall	48/100	104 / 234	Better than 56%
Tensile	—	—	—
Impact	—	—	—
Stiffness	48/100	207 / 223	Better than 8%
Consistency	—	—	—
Layer adhesion	—	—	—
Thermal	—	—	—

Decision guidance

- Use this material mainly for low-load, visual or experimental parts.
- Do not choose it as a tensile-strength benchmark material.
- Avoid selecting it for impact-focused testing or shock-loaded designs.

Better alternatives

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
No stronger same-base-material alternatives were identified in the current governed dataset.					

Peer context

Highest-scoring same-base-material peers from the current governed dataset. This context is descriptive and is not recalculated by the public renderer.

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
MAT0236	Yasin Standard Black PETG CF Black	Yasin	50/100	30/100	20/100
MAT0198	Siraya Tech Fiberheart Black PETG Pro CF Black	Siraya Tech	49/100	33/100	19/100
MAT0062	IC3D Standard PETG Green-Yellow	IC3D	48/100	26/100	—
MAT0165	Winkle Standard Ash Gray PETG Gray	Winkle	46/100	30/100	14/100
MAT0225	Spectrum Premium Iceland Blue PETG Blue	Spectrum	46/100	33/100	17/100
MAT0063	IC3D Standard PETG Yellow	IC3D	46/100	26/100	—
MAT0235	Yasin Standard Black PETG GF Black	Yasin	45/100	27/100	21/100
MAT0171	BambuLab Basic Gray PETG Gray	BambuLab	45/100	34/100	14/100

Public links

[Manufacturer website](#) [Download PDF](#)

Methodology and limitations

Results are comparative 3DPlceland measurements from home-built test equipment. Thermal is a nearby BlueDOT probe-indicated fixture temperature, not ASTM D648, ISO 75 or specimen temperature. Missing evidence remains n/a. Scores and test results are not recalculated by this publishing layer and do not replace certified manufacturer datasheets or accredited laboratory testing.

- [Testing methodology](#)
- [Engineering methodology whitepaper](#)