

Prusa3D Prusament Light Yellow PVB Yellow

Material Engineering Report
MaterialID MAT0038

3DPiceland Engineering Platform

3DPiceland Labs

Generated with 3DPiceland Engineering Platform v60.0.6

WORKFLOW-RELIABILITY - Bug Fixes and Workflow Reliability

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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

Complete

ENGINEERING AXES

6/6

PUBLIC MSRP

\$32.00 USD/kg

Material identity

MaterialID	MAT0038
Material	Prusa3D Prusament Light Yellow PVB Yellow
Manufacturer	Prusa3D
Product line	Prusament
Base material	PVB
Category	Specialty
Variant / finish	—
Reinforcement	—
Color	Yellow

Governed engineering profile

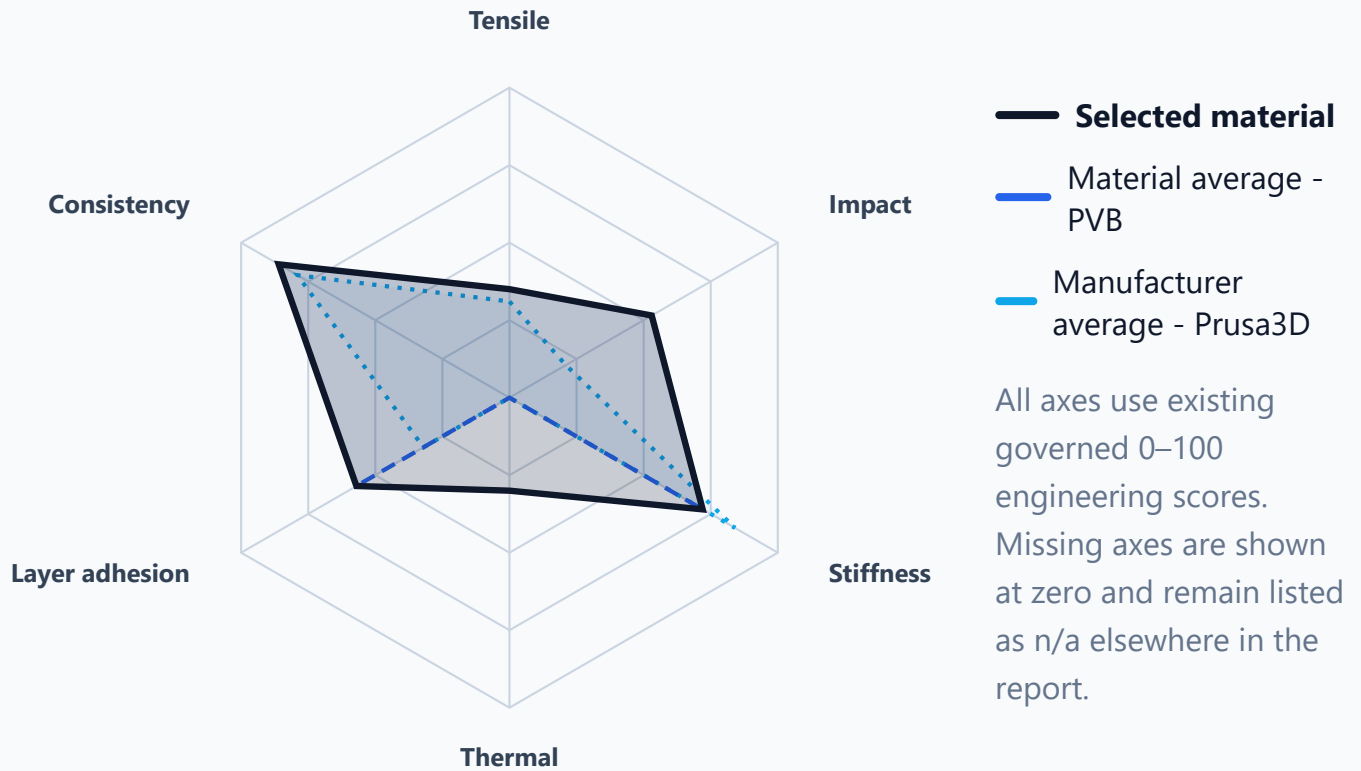
Overall	61/100
Tensile	35/100

Impact	53/100
Stiffness	72/100
Consistency	86/100
Layer adhesion	57/100
Thermal	30/100
Best available axis	consistency

Engineering score profile



Engineering radar



Fixture thermal result

59 °C · score 30/100 · method 3dp-thermal-deflection-fixture-v1

Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.

Material and manufacturer context

Metric	Selected material	Material average	Manufacturer average
Overall	61/100	61/100	49/100
Tensile	35/100	35/100	31/100
Impact	53/100	53/100	21/100
Stiffness	72/100	72/100	84/100
Consistency	86/100	86/100	79/100
Layer adhesion	57/100	57/100	32/100
Thermal	30/100	—	—

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	20.559 MPa	6.205 MPa	30.2%	9	9/10
Tensile flat	35.976 MPa	1.397 MPa	3.9%	10	10/10
Impact upright	76.209 kJ/m ²	6.235 kJ/m ²	8.2%	10	10/10
Impact flat	987.287 kJ/m ²	105.551 kJ/m ²	10.7%	10	10/10
Stiffness modulus	2145.491 MPa	—	—	—	—
Stiffness deflection	2.529 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: Prusa3D Prusament Light Yellow PVB Yellow has a balanced mid-range engineering profile. It is above its material-family average by 0 points and above its manufacturer average by 11,3 points. Its strongest measured axis is Consistency, while the weakest axis is Tensile.

Data-driven review: Prusa3D Prusament Light Yellow PVB Yellow is best understood as a balanced material for general functional prototypes. Compared with the current verified dataset, it ranks better than 97% overall, is roughly aligned with the material-family average, and is above the manufacturer average by 11,3 points. Its strongest engineering signal is Consistency, while Tensile is the main limitation to consider before using it for demanding applications.

BEST FEATURE

Consistency

MAIN LIMITATION

Tensile

DATASET POSITION

Better than 97%
9 / 234

Strengths

- Consistency: 86/100. Repeatability is one of the stronger signals in this material profile.
- Stiffness: 72/100. Stiffness is a relative advantage in this comparison group.

Limitations

- Tensile: 35/100. Avoid using this as the primary choice for tensile-loaded parts.

Engineering trade-offs

- Good repeatability does not compensate for low tensile capability in load-bearing designs.

Recommended applications

- Rigid brackets, fixtures and shape-stable prototypes
- Repeatable print jobs and production-style batches

Metric rankings and percentiles

Metric	Score	Rank	Percentile
Overall	61/100	9 / 234	Better than 97%
Tensile	35/100	43 / 226	Better than 81%
Impact	53/100	17 / 226	Better than 93%
Stiffness	72/100	138 / 223	Better than 39%
Consistency	86/100	12 / 231	Better than 95%

Metric	Score	Rank	Percentile
Layer adhesion	57/100	12 / 226	Better than 95%
Thermal	30/100	98 / 209	Better than 54%

Decision guidance

- Use this material for moderate requirements after checking the weakest axis.

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
No same-material peers with governed score context are available.					

Public links

[Manufacturer website](#) [Video review](#) [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](#)

