

Prusa3D Prusament ASA Pro Green

Material Engineering Report
MaterialID MAT0015

3DPiceland Engineering Platform
3DPiceland Labs

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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

\$26.40 USD/kg

Material identity

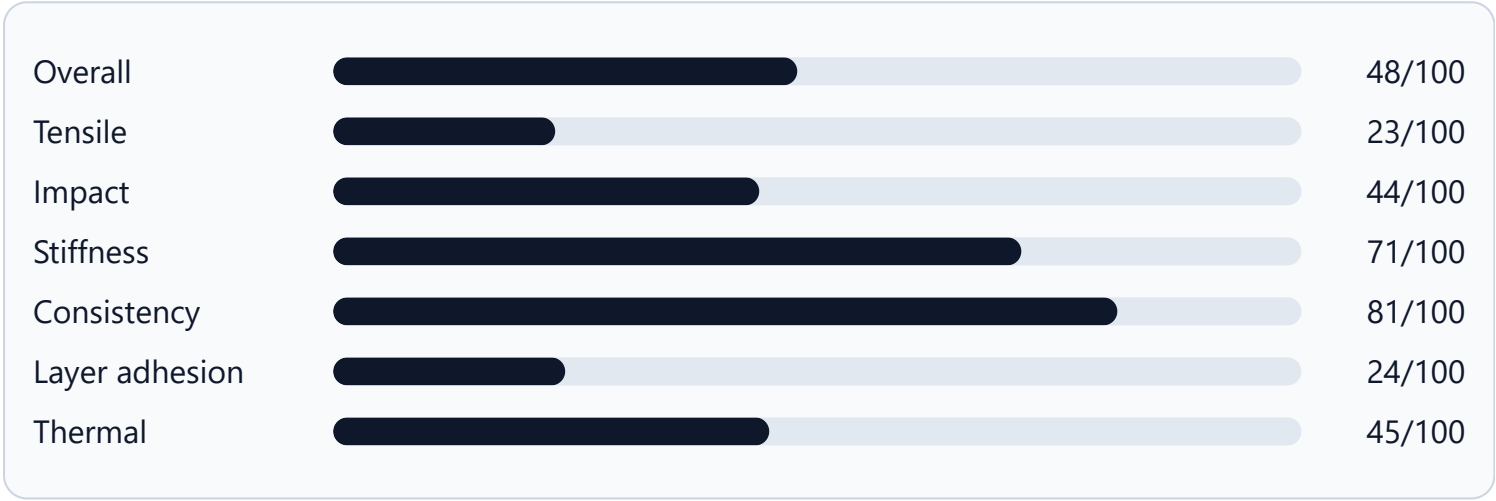
MaterialID	MAT0015
Material	Prusa3D Prusament ASA Pro Green
Manufacturer	Prusa3D
Product line	Prusament
Base material	ASA
Category	Engineering
Variant / finish	Pro
Reinforcement	—
Color	Green

Governed engineering profile

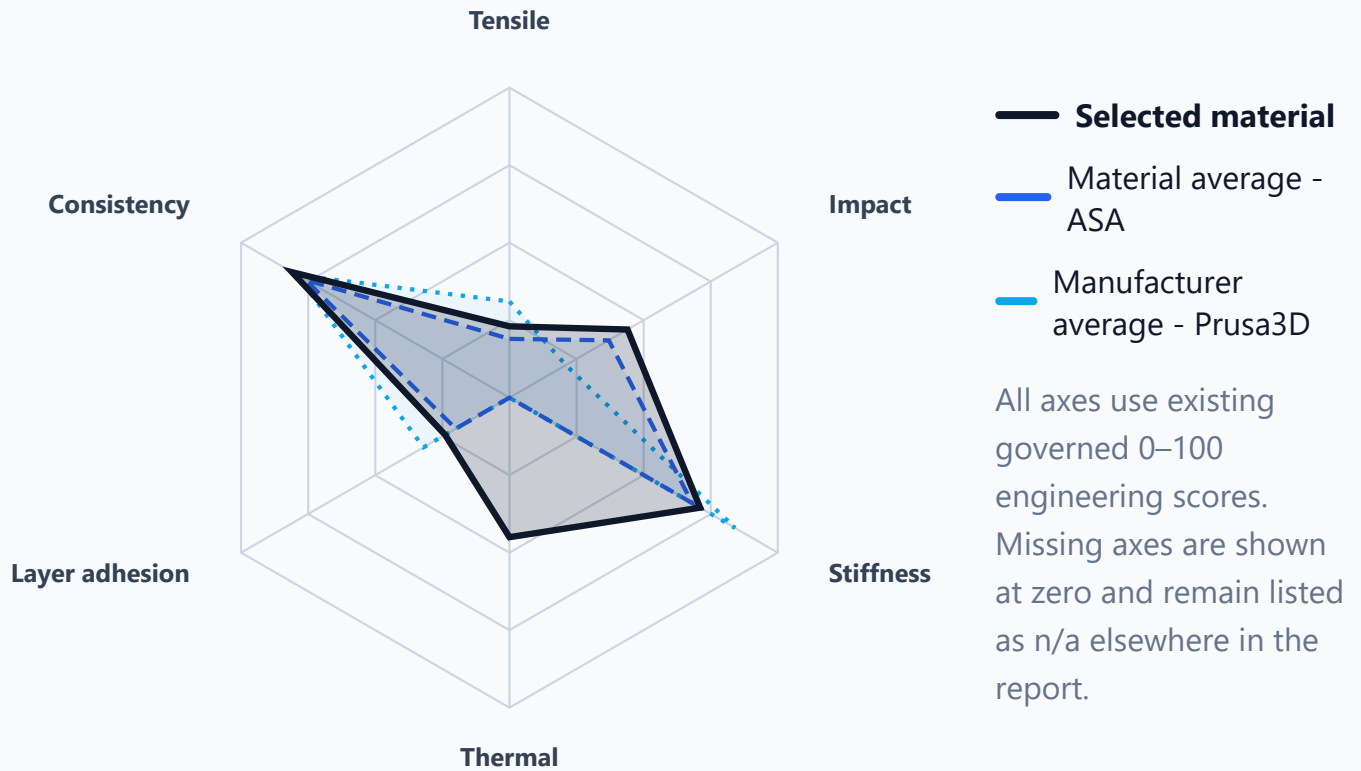
Overall	48/100
Tensile	23/100

Impact	44/100
Stiffness	71/100
Consistency	81/100
Layer adhesion	24/100
Thermal	45/100
Best available axis	consistency

Engineering score profile



Engineering radar



Fixture thermal result

90 °C · score 45/100 · method 3dp-thermal-deflection-fixture-v1

Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland 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	48/100	44/100	49/100
Tensile	23/100	19/100	31/100
Impact	44/100	37/100	21/100
Stiffness	71/100	68/100	84/100
Consistency	81/100	76/100	79/100
Layer adhesion	24/100	20/100	32/100
Thermal	45/100	—	—

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	7.029 MPa	2.818 MPa	40.1%	10	10/10
Tensile flat	29.87 MPa	4.561 MPa	15.3%	10	10/10
Impact upright	71.149 kJ/m ²	10.71 kJ/m ²	15.1%	10	10/10
Impact flat	799.732 kJ/m ²	50.06 kJ/m ²	6.3%	10	10/10
Stiffness modulus	2133.089 MPa	—	—	—	—
Stiffness deflection	2.544 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 ASA Pro Green has a specialized or limited engineering profile. It is above its material-family average by 4,2 points and below its manufacturer average by 1 points. Its strongest measured axis is Consistency, while the weakest axis is Tensile.

Data-driven review: Prusa3D Prusament ASA Pro Green is best understood as a repeatable material for cosmetic, concept and low-load prototype work. Compared with the current verified dataset, it ranks better than 58% overall, is above the material-family average by 4,2 points, and is roughly aligned with the manufacturer average. 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 58%
99 / 234

Strengths

- Consistency: 81/100. Repeatability is one of the stronger signals in this material profile.
- Impact: 44/100. Impact behavior is competitive against the material-family context.
- Stiffness: 71/100. Stiffness is a relative advantage in this comparison group.

Limitations

- Tensile: 23/100. Avoid using this as the primary choice for tensile-loaded parts.
- Layer adhesion: 24/100. Z-axis performance should be treated with caution.

Engineering trade-offs

- Good repeatability does not compensate for low tensile capability in load-bearing designs.
- Stiffness is useful for shape stability, but impact tolerance is a separate limitation.
- The report should be read as a suitability warning rather than a general-purpose recommendation.

Recommended applications

- Rigid brackets, fixtures and shape-stable prototypes
- Repeatable print jobs and production-style batches
- Cosmetic parts, concept models or low-load prototypes
- Avoid high tensile load applications

Metric rankings and percentiles

Metric	Score	Rank	Percentile
Overall	48/100	99 / 234	Better than 58%
Tensile	23/100	158 / 226	Better than 31%
Impact	44/100	42 / 226	Better than 82%
Stiffness	71/100	140 / 223	Better than 38%
Consistency	81/100	69 / 231	Better than 71%
Layer adhesion	24/100	113 / 226	Better than 50%
Thermal	45/100	24 / 209	Better than 89%

Decision guidance

- Use this material mainly for low-load, visual or experimental parts.
- Do not choose it as a tensile-strength benchmark material.

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
MAT0014	Extrudr DuraPro Emerald Green ASA Green	Extrudr	51/100	21/100	49/100
MAT0211	Eryone Standard Black ASA High Speed Black	Eryone	48/100	19/100	50/100
MAT0016	Extrudr DuraPro ASA Red	Extrudr	48/100	19/100	50/100
MAT0148	Thorwell Standard ASA ASA Yellow	Thorwell	46/100	22/100	56/100

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
MAT0216	Eryone Standard White ASA White	Eryone	46/100	23/100	51/100
MAT0017	Yasin Standard White ASA White	Yasin	46/100	21/100	51/100
MAT0179	BambuLab Standard Blue ASA Blue	BambuLab	45/100	22/100	45/100
MAT0012	Prusa3D Prusament Galaxy Black ASA Black	Prusa3D	45/100	18/100	42/100

Public links

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

Methodology and limitations

Results are comparative 3DPIceland 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](#)