

Yasin Standard Blue ABS Blue

Material Engineering Report
MaterialID MAT0241

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

\$25.44 USD/kg

Material identity

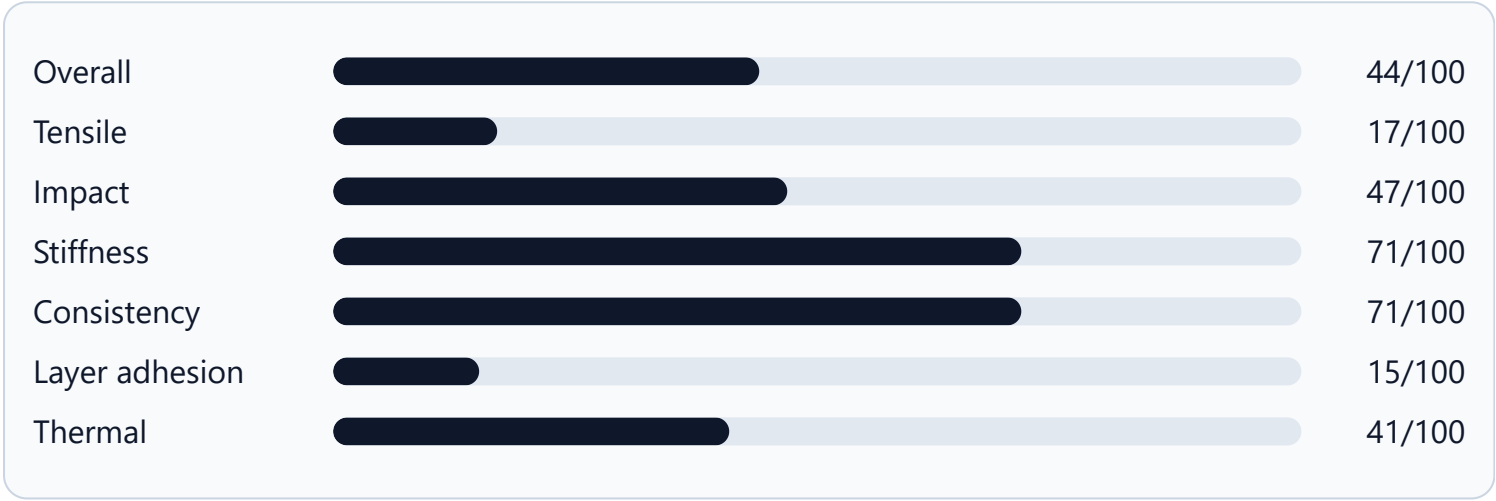
MaterialID	MAT0241
Material	Yasin Standard Blue ABS Blue
Manufacturer	Yasin
Product line	Standard
Base material	ABS
Category	Engineering
Variant / finish	—
Reinforcement	—
Color	Blue

Governed engineering profile

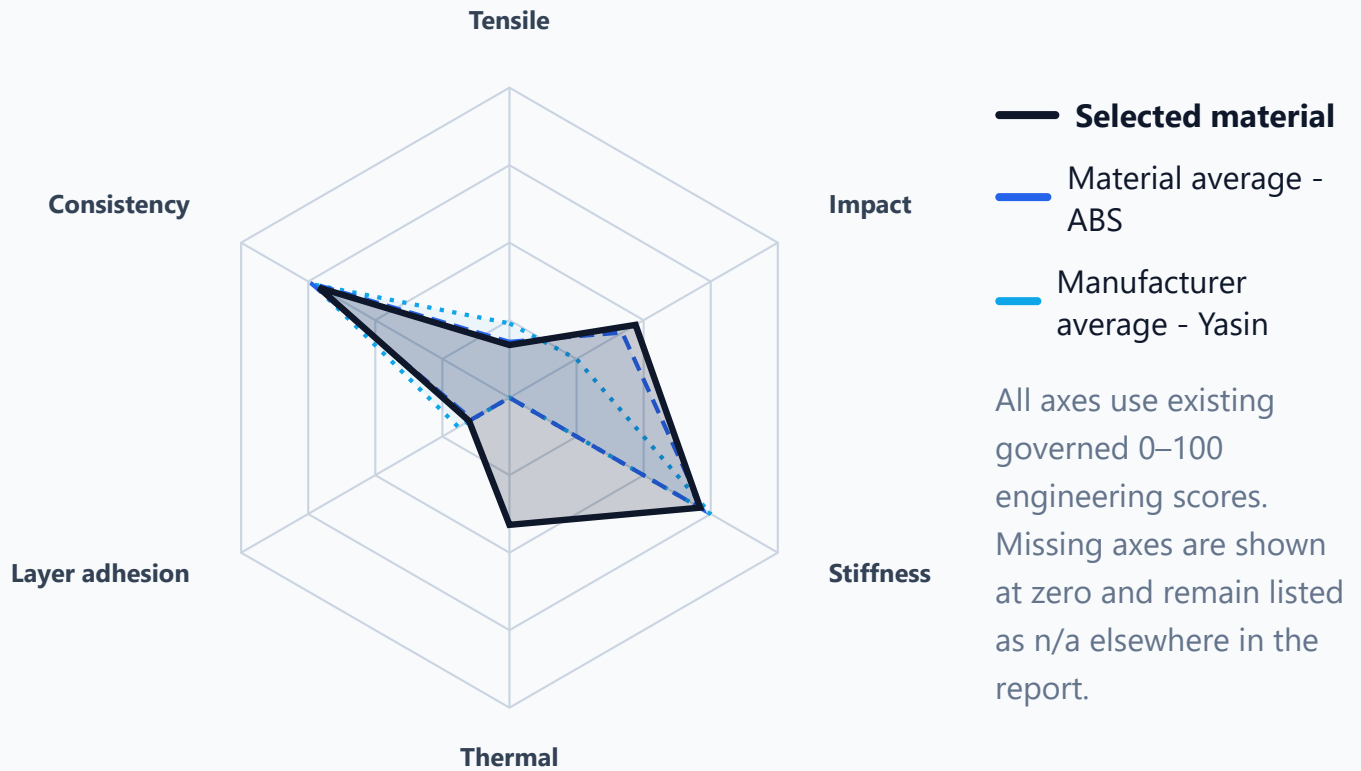
Overall	44/100
Tensile	17/100

Impact	47/100
Stiffness	71/100
Consistency	71/100
Layer adhesion	15/100
Thermal	41/100
Best available axis	stiffness

Engineering score profile



Engineering radar



Fixture thermal result

81 °C · score 41/100 · 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	44/100	45/100	43/100
Tensile	17/100	18/100	24/100
Impact	47/100	42/100	25/100
Stiffness	71/100	72/100	75/100
Consistency	71/100	74/100	73/100
Layer adhesion	15/100	14/100	19/100
Thermal	41/100	—	—

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	3.555 MPa	2.274 MPa	64%	9	9/10
Tensile flat	24.379 MPa	6.899 MPa	28.3%	10	10/10
Impact upright	118.65 kJ/m ²	19.012 kJ/m ²	16%	10	10/10
Impact flat	822.269 kJ/m ²	62.396 kJ/m ²	7.6%	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	2026-08-20
Impact	2026-08-20
Stiffness	2026-08-20
Thermal	2026-08-20

Engineering interpretation

Summary: Yasin Standard Blue ABS Blue has a specialized or limited engineering profile. It is below its material-family average by 0,5 points and above its manufacturer average by 1,2 points. Its strongest measured axis is Stiffness, while the weakest axis is Layer Adhesion.

Data-driven review: Yasin Standard Blue ABS Blue 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 34% overall, is roughly aligned with the material-family average, and is roughly aligned with the manufacturer average. Its strongest engineering signal is Stiffness, while Layer Adhesion is the main limitation to consider before using it for demanding applications.

BEST FEATURE

Stiffness

MAIN LIMITATION

Layer Adhesion

DATASET POSITION

Better than 34%
156 / 234

Strengths

- Consistency: 71/100. Repeatability is one of the stronger signals in this material profile.
- Stiffness: 71/100. Stiffness is a relative advantage in this comparison group.

Limitations

- Tensile: 17/100. Avoid using this as the primary choice for tensile-loaded parts.
- Layer adhesion: 15/100. Z-axis performance should be treated with caution.

Engineering trade-offs

- Good repeatability does not compensate for low tensile capability in load-bearing designs.
- 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	44/100	156 / 234	Better than 34%
Tensile	17/100	202 / 226	Better than 11%

Metric	Score	Rank	Percentile
Impact	47/100	34 / 226	Better than 85%
Stiffness	71/100	140 / 223	Better than 38%
Consistency	71/100	199 / 231	Better than 14%
Layer adhesion	15/100	172 / 226	Better than 24%
Thermal	41/100	47 / 209	Better than 78%

Decision guidance

- Use this material mainly for low-load, visual or experimental parts.
- Review the listed alternatives if the application needs stronger overall performance.
- Do not choose it as a tensile-strength benchmark material.

Better alternatives

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
MAT0006	Prima Creator PrimaValue Dark Gray ABS Gray	Prima Creator	52/100	24/100	54/100
MAT0202	Siraya Tech Fiberheart White ABS High Temp White	Siraya Tech	49/100	21/100	54/100
MAT0207	Siraya Tech Fiberheart Black ABS Core CF Black	Siraya Tech	49/100	24/100	27/100

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
MAT0006	Prima Creator PrimaValue Dark Gray ABS Gray	Prima Creator	52/100	24/100	54/100
MAT0202	Siraya Tech Fiberheart White ABS High Temp White	Siraya Tech	49/100	21/100	54/100

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
MAT0207	Siraya Tech Fiberheart Black ABS Core CF Black	Siraya Tech	49/100	24/100	27/100
MAT0003	Prusa3D Buddy3D ABS Black	Prusa3D	48/100	19/100	53/100
MAT0007	FilaFarm Standard ABS Orange	FilaFarm	47/100	—	41/100
MAT0152	Thorwell Standard ABS ABS Yellow	Thorwell	47/100	20/100	53/100
MAT0181	BambuLab Standard Blue ABS Blue	BambuLab	46/100	19/100	53/100
MAT0005	Extrudr DuraPro ABS Blue	Extrudr	44/100	16/100	47/100

Public links

[Manufacturer website](#) [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](#)