

Prima Creator PrimaSelect ABS Blue

Material Engineering Report
MaterialID MAT0004

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

Complete

ENGINEERING AXES

6/6

PUBLIC MSRP

\$17.30 USD/kg

Material identity

MaterialID	MAT0004
Material	Prima Creator PrimaSelect ABS Blue
Manufacturer	Prima Creator
Product line	PrimaSelect
Base material	ABS
Category	Engineering
Variant / finish	—
Reinforcement	—
Color	Blue

Governed engineering profile

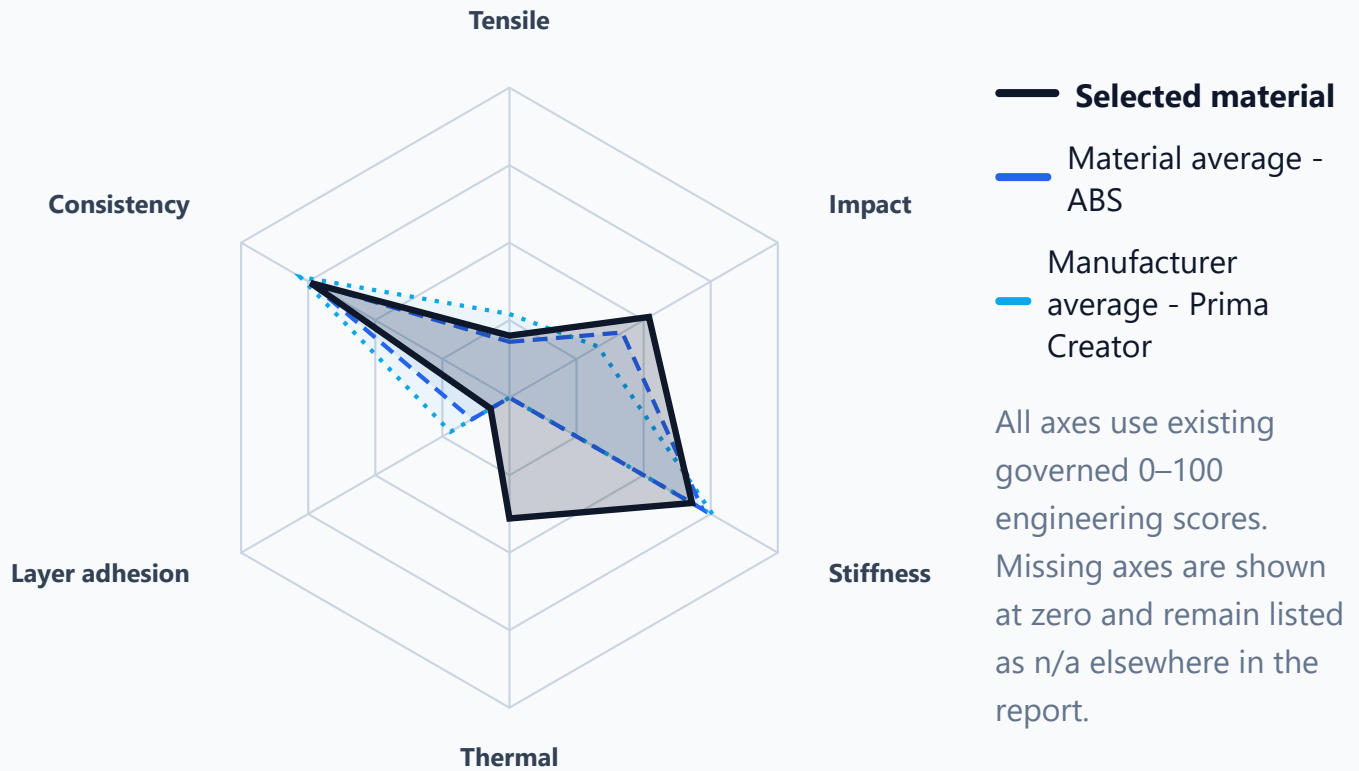
Overall	44/100
Tensile	20/100

Impact	52/100
Stiffness	68/100
Consistency	74/100
Layer adhesion	7/100
Thermal	39/100
Best available axis	consistency

Engineering score profile



Engineering radar



Fixture thermal result

78 °C · score 39/100 · 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	44/100	45/100	47/100
Tensile	20/100	18/100	27/100
Impact	52/100	42/100	33/100
Stiffness	68/100	72/100	76/100
Consistency	74/100	74/100	78/100
Layer adhesion	7/100	14/100	22/100
Thermal	39/100	—	—

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	2.038 MPa	1.315 MPa	64.5%	8	8/10
Tensile flat	30.1 MPa	5.616 MPa	18.7%	10	10/10
Impact upright	147.65 kJ/m ²	18.124 kJ/m ²	12.3%	10	10/10
Impact flat	889.839 kJ/m ²	35.65 kJ/m ²	4%	10	10/10
Stiffness modulus	2027.607 MPa	—	—	—	—
Stiffness deflection	2.676 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: Prima Creator PrimaSelect ABS Blue has a specialized or limited engineering profile. It is below its material-family average by 0,5 points and below its manufacturer average by 3,2 points. Its strongest measured axis is Consistency, while the weakest axis is Layer Adhesion.

Data-driven review: Prima Creator PrimaSelect 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 33% overall, is roughly aligned with the material-family average, and is below the manufacturer average by 3,2 points. Its strongest engineering signal is Consistency, while Layer Adhesion is the main limitation to consider before using it for demanding applications.

BEST FEATURE

Consistency

MAIN LIMITATION

Layer Adhesion

DATASET POSITION

Better than 33%
157 / 234

Strengths

- Consistency: 74/100. Repeatability is one of the stronger signals in this material profile.
- Impact: 52/100. Impact behavior is competitive against the material-family context.

Limitations

- Tensile: 20/100. Avoid using this as the primary choice for tensile-loaded parts.
- Layer adhesion: 7/100. 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

- 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	157 / 234	Better than 33%
Tensile	20/100	185 / 226	Better than 19%
Impact	52/100	20 / 226	Better than 92%

Metric	Score	Rank	Percentile
Stiffness	68/100	157 / 223	Better than 30%
Consistency	74/100	167 / 231	Better than 28%
Layer adhesion	7/100	222 / 226	Better than 2%
Thermal	39/100	54 / 209	Better than 75%

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](#)