

Eryone Standard White PP White

Material Engineering Report
MaterialID MAT0194

3DPiceland Engineering Platform
3DPiceland Labs
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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

Partial

ENGINEERING AXES

5/6

PUBLIC MSRP

\$30.43 USD/kg

Material identity

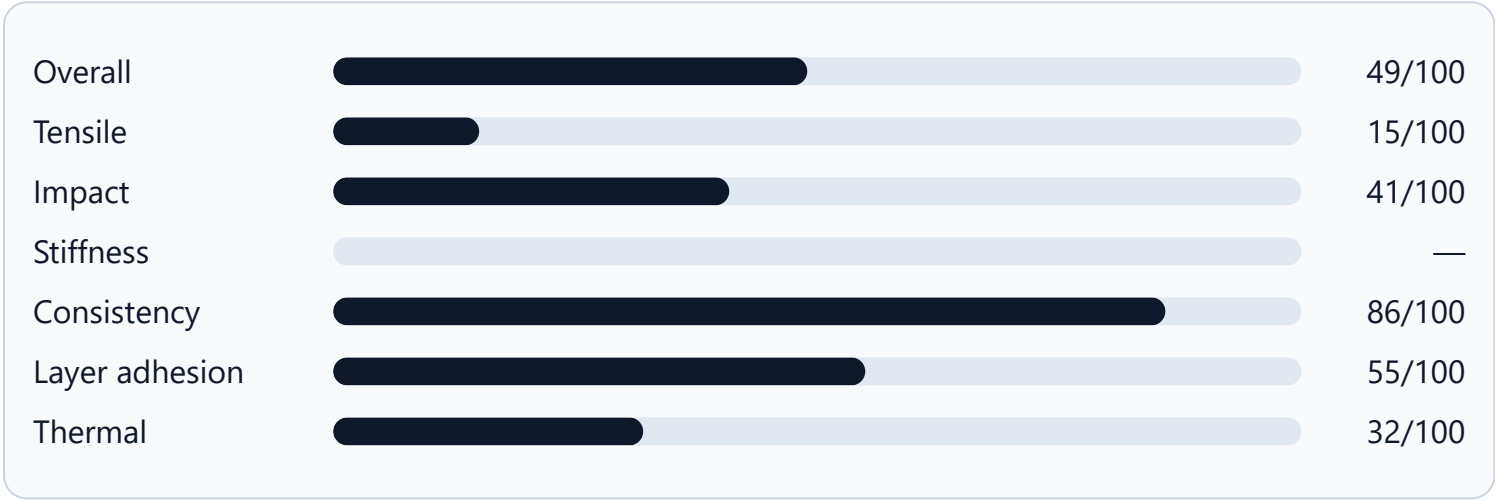
MaterialID	MAT0194
Material	Eryone Standard White PP White
Manufacturer	Eryone
Product line	Standard
Base material	PP
Category	Engineering
Variant / finish	—
Reinforcement	—
Color	White

Governed engineering profile

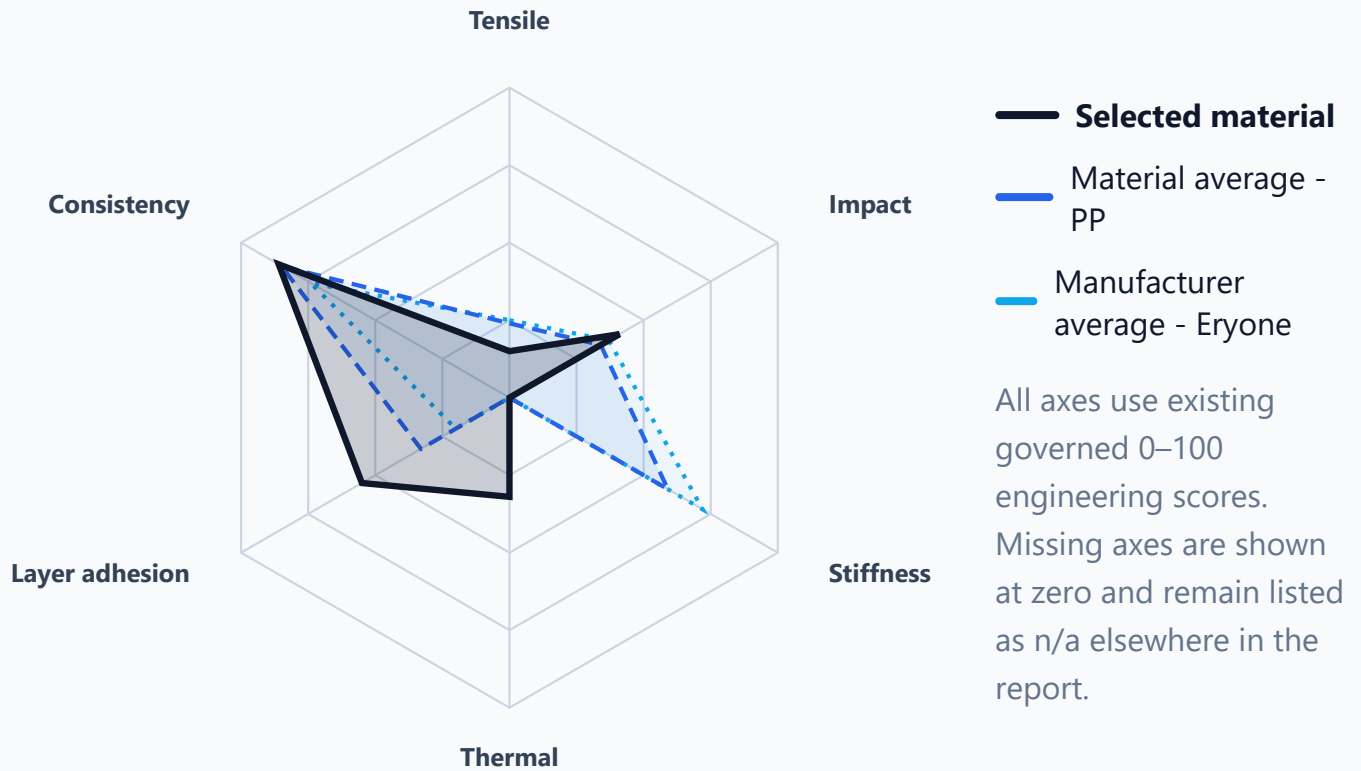
Overall	49/100
Tensile	15/100

Impact	41/100
Stiffness	—
Consistency	86/100
Layer adhesion	55/100
Thermal	32/100
Best available axis	consistency

Engineering score profile



Engineering radar



Fixture thermal result

63 °C · score 32/100 · 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	49/100	46/100	46/100
Tensile	15/100	24/100	25/100
Impact	41/100	34/100	37/100
Stiffness	—	59/100	72/100
Consistency	86/100	85/100	74/100
Layer adhesion	55/100	33/100	20/100
Thermal	32/100	—	—

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	8.321 MPa	2.173 MPa	26.1%	10	10/10
Tensile flat	15.165 MPa	0.976 MPa	6.4%	10	10/10
Impact upright	223.108 kJ/m ²	25.943 kJ/m ²	11.6%	10	10/10
Impact flat	600.643 kJ/m ²	68.51 kJ/m ²	11.4%	10	10/10
Stiffness modulus	—	—	—	—	—
Stiffness deflection	—	—	—	—	—

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: Eryone Standard White PP White has a specialized or limited engineering profile. It is above its material-family average by 2,8 points and above its manufacturer average by 2,9 points. Its strongest measured axis is Consistency, while the weakest axis is Tensile.

Data-driven review: Eryone Standard White PP White 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 61% overall, is roughly aligned with the material-family average, 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 61%
92 / 234

Strengths

- Layer adhesion: 55/100. Z-axis bonding is better than the material-family context.
- Consistency: 86/100. Repeatability is one of the stronger signals in this material profile.
- Impact: 41/100. Impact behavior is competitive against the material-family context.

Limitations

- Tensile: 15/100. 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.
- Layer bonding may be acceptable, but stiffness is still a limiting design factor.
- 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	49/100	92 / 234	Better than 61%
Tensile	15/100	216 / 226	Better than 5%
Impact	41/100	47 / 226	Better than 80%
Stiffness	—	—	—
Consistency	86/100	14 / 231	Better than 94%
Layer adhesion	55/100	13 / 226	Better than 95%
Thermal	32/100	83 / 209	Better than 61%

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
MAT0037	Prusa3D Prusament Natural PP GF White	Prusa3D	48/100	36/100	33/100
MAT0036	Prusa3D Prusament PP CF Black	Prusa3D	42/100	22/100	29/100

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](#)