

Eryone Standard

White ASA GF White

Material Engineering Report
MaterialID MAT0218

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

\$16.50 USD/kg

Material identity

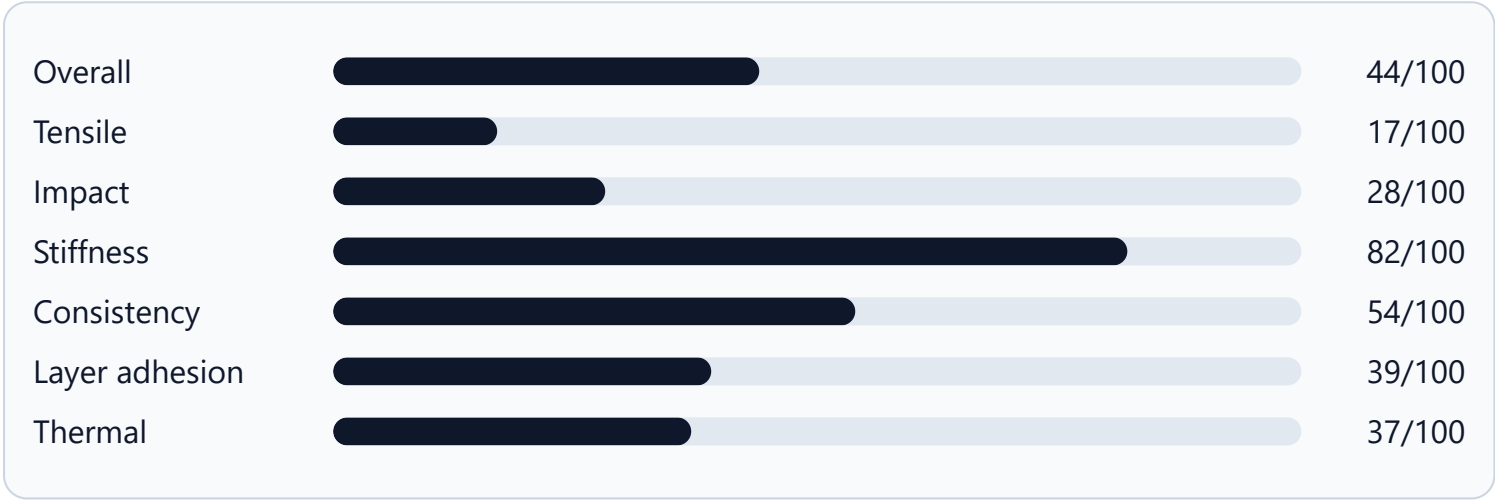
MaterialID	MAT0218
Material	Eryone Standard White ASA GF White
Manufacturer	Eryone
Product line	Standard
Base material	ASA
Category	Engineering
Variant / finish	—
Reinforcement	GF
Color	White

Governed engineering profile

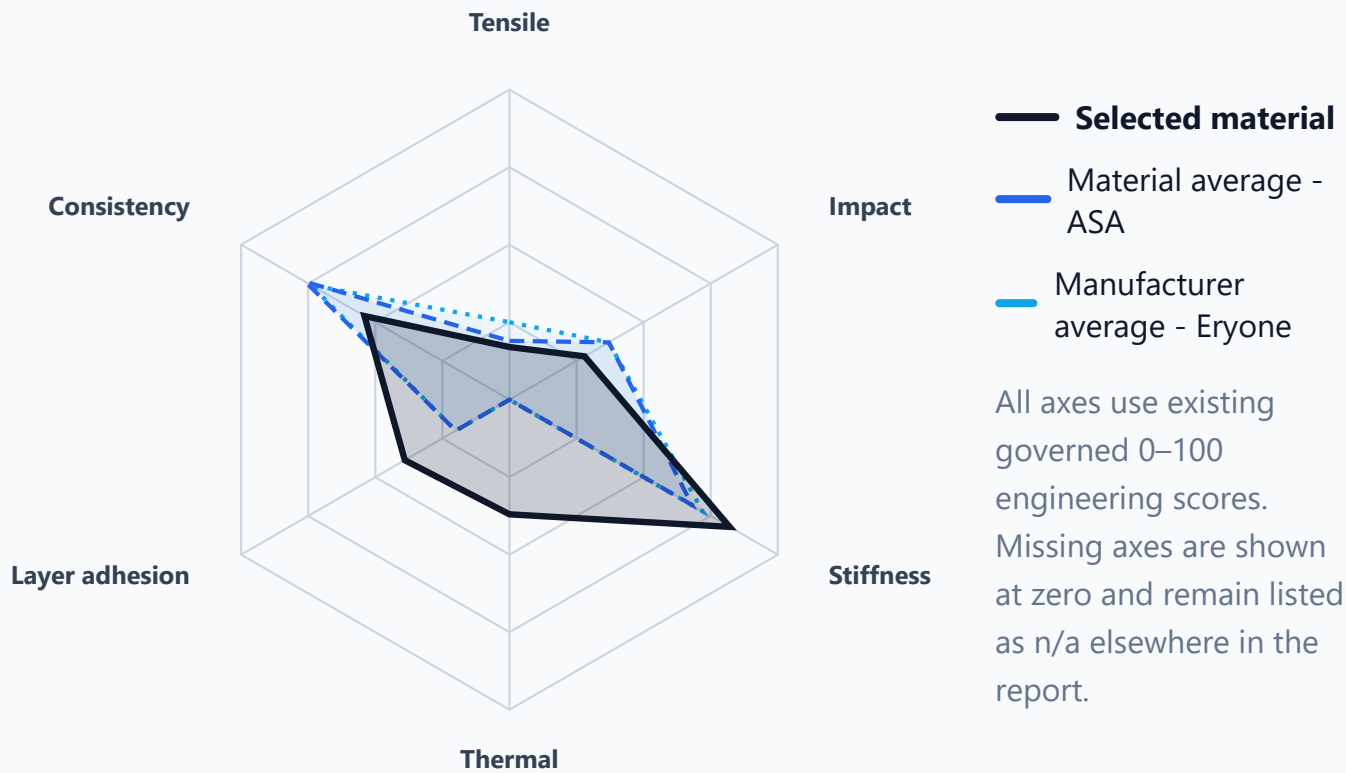
Overall	44/100
Tensile	17/100

Impact	28/100
Stiffness	82/100
Consistency	54/100
Layer adhesion	39/100
Thermal	37/100
Best available axis	stiffness

Engineering score profile



Engineering radar



Fixture thermal result

74 °C · score 37/100 · 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	44/100	46/100
Tensile	17/100	19/100	25/100
Impact	28/100	37/100	37/100
Stiffness	82/100	68/100	72/100
Consistency	54/100	76/100	74/100
Layer adhesion	39/100	20/100	20/100
Thermal	37/100	—	—

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	7.629 MPa	9.61 MPa	126%	10	10/10
Tensile flat	19.414 MPa	8.403 MPa	43.3%	9	9/10
Impact upright	181.887 kJ/m ²	11.613 kJ/m ²	6.4%	10	10/10
Impact flat	368.88 kJ/m ²	23.444 kJ/m ²	6.4%	10	10/10
Stiffness modulus	2460.163 MPa	—	—	—	—
Stiffness deflection	2.206 mm	—	—	—	—

Measurement provenance

Canonical per-module measured dates from SQLite, shown in unambiguous ISO format. Missing dates are not inferred.

Module	Measured date
Tensile	2026-08-01
Impact	2026-08-01
Stiffness	2026-07-31
Thermal	Not recorded

Engineering interpretation

Summary: Eryone Standard White ASA GF White has a specialized or limited engineering profile. It is below its material-family average by 0,2 points and below its manufacturer average by 2,4 points. Its strongest measured axis is Stiffness, while the weakest axis is Tensile.

Data-driven review: Eryone Standard White ASA GF White is best understood as a limited-use material that should be validated carefully before functional use. Compared with the current verified dataset, it ranks better than 32% overall, is roughly aligned with the material-family average, and is roughly aligned with the manufacturer average. Its strongest engineering signal is Stiffness, while Tensile is the main limitation to consider before using it for demanding applications.

BEST FEATURE

Stiffness

MAIN LIMITATION

Tensile

DATASET POSITION

Better than 32%
159 / 234

Strengths

- Layer adhesion: 39/100. Z-axis bonding is better than the material-family context.
- Stiffness: 82/100. Stiffness is a relative advantage in this comparison group.

Limitations

- Tensile: 17/100. Avoid using this as the primary choice for tensile-loaded parts.
- Impact: 28/100. Avoid high impact or shock-loaded components without additional validation.
- Consistency: 54/100. Repeatability may not be the best reason to choose this filament.
- Layer adhesion: 39/100. Z-axis performance should be treated with caution.

Engineering trade-offs

- 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
- Cosmetic parts, concept models or low-load prototypes
- Avoid high tensile load applications
- Avoid high impact components

Metric rankings and percentiles

Metric	Score	Rank	Percentile
Overall	44/100	159 / 234	Better than 32%
Tensile	17/100	204 / 226	Better than 10%
Impact	28/100	75 / 226	Better than 67%
Stiffness	82/100	108 / 223	Better than 52%
Consistency	54/100	229 / 231	Better than 1%
Layer adhesion	39/100	51 / 226	Better than 78%
Thermal	37/100	62 / 209	Better than 71%

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.
- Avoid selecting it for impact-focused testing or shock-loaded designs.

Better alternatives

MaterialID	Material	Manufacturer	Overall	Tensile	Impact
MAT0014	Extrudr DuraPro Emerald Green ASA Green	Extrudr	51/100	21/100	49/100
MAT0015	Prusa3D Prusament ASA Pro Green	Prusa3D	48/100	23/100	44/100
MAT0211	Eryone Standard Black ASA High Speed Black	Eryone	48/100	19/100	50/100

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
MAT0014	Extrudr DuraPro Emerald Green ASA Green	Extrudr	51/100	21/100	49/100
MAT0015	Prusa3D Prusament ASA Pro Green	Prusa3D	48/100	23/100	44/100
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
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

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](#)