

Yasin Standard Natural POM Natural

Material Engineering Report
MaterialID MAT0232

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

No native results

ENGINEERING AXES

0/6

PUBLIC MSRP

\$36.64 USD/kg

Material identity

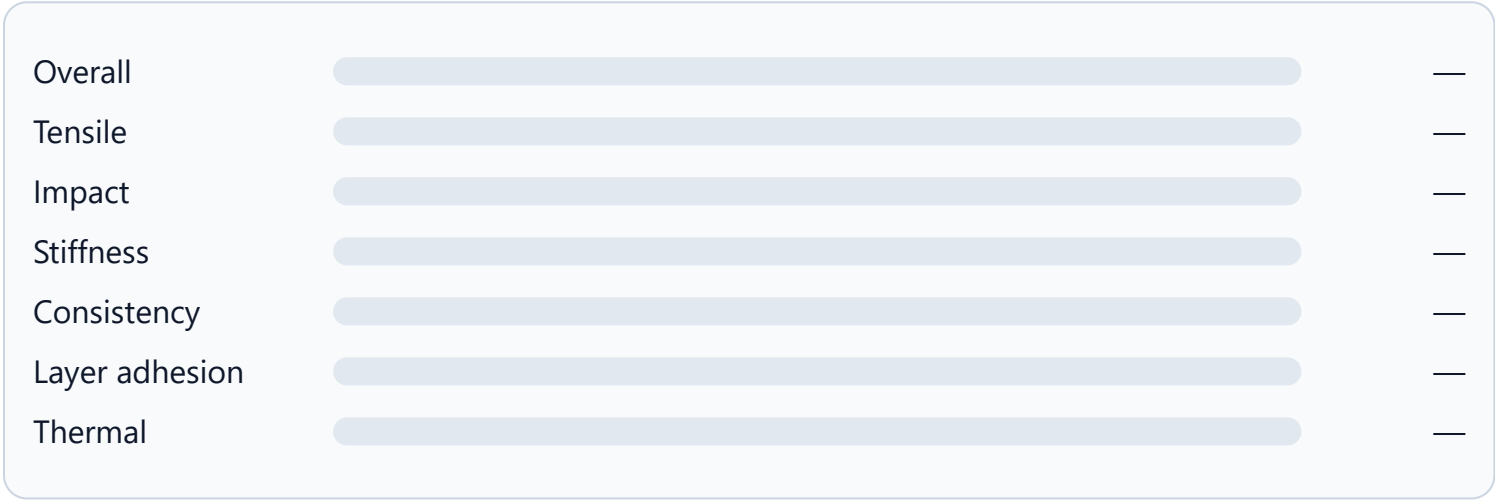
MaterialID	MAT0232
Material	Yasin Standard Natural POM Natural
Manufacturer	Yasin
Product line	Standard
Base material	POM
Category	Specialty
Variant / finish	—
Reinforcement	—
Color	Natural

Governed engineering profile

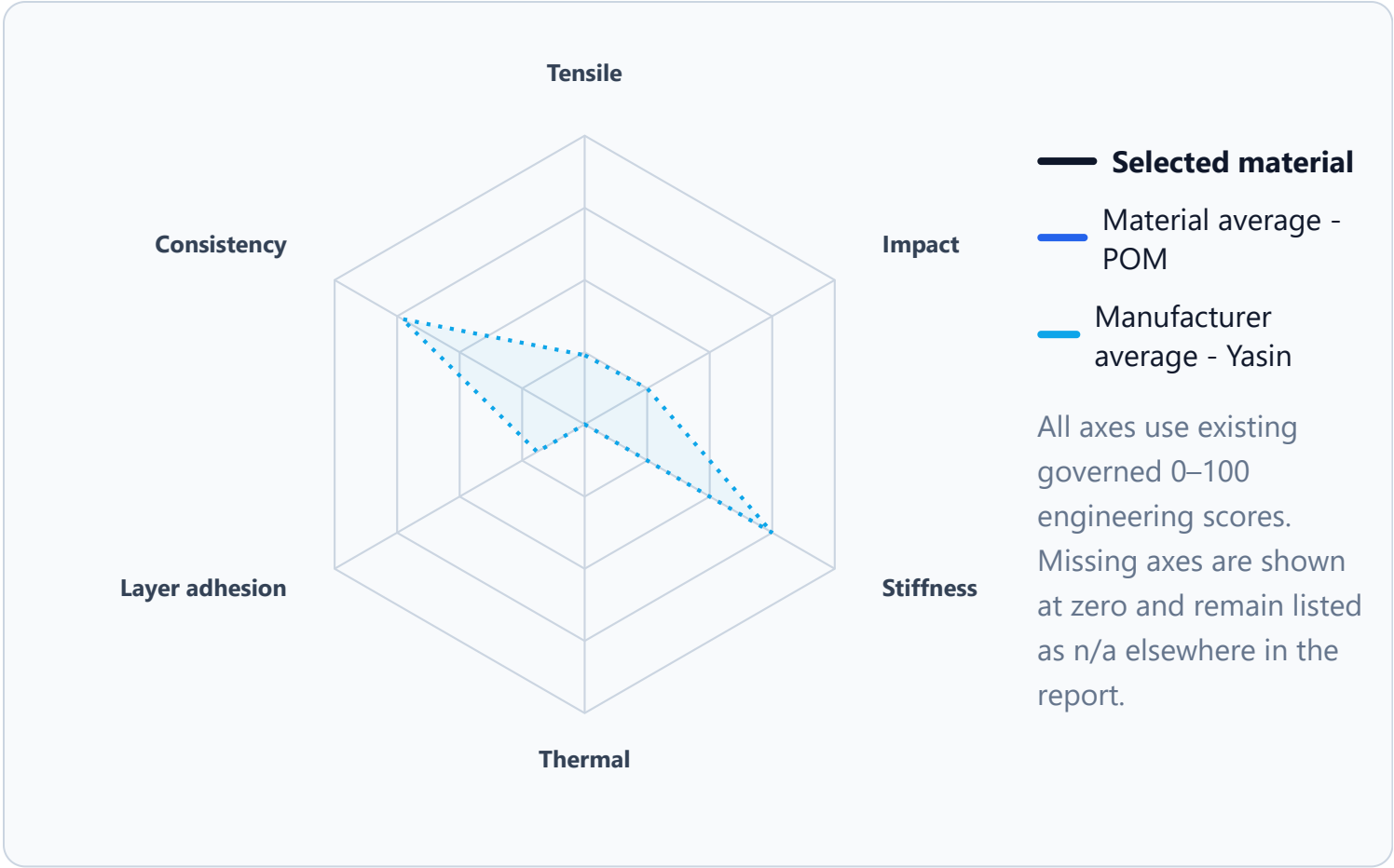
Overall	—
Tensile	—

Impact	—
Stiffness	—
Consistency	—
Layer adhesion	—
Thermal	—
Best available axis	mechanical profile

Engineering score profile



Engineering radar



Fixture thermal result

— · score — · method —
—

Material and manufacturer context

Metric	Selected material	Material average	Manufacturer average
Overall	—	—	43/100
Tensile	—	—	24/100
Impact	—	—	25/100
Stiffness	—	—	75/100
Consistency	—	—	73/100
Layer adhesion	—	—	19/100
Thermal	—	—	—

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	—	—	—	—	—
Tensile flat	—	—	—	—	—
Impact upright	—	—	—	—	—
Impact flat	—	—	—	—	—
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: Yasin Standard Natural POM Natural has a low engineering profile. It is without enough material-family average context and without enough manufacturer average context. Its strongest measured axis is No scored metric, while the weakest axis is No scored metric.

Data-driven review: Yasin Standard Natural POM Natural is best understood as a limited-use material that should be validated carefully before functional use. Compared with the current verified dataset, it ranks — overall, is missing enough context for the material-family average, and is missing enough context for the manufacturer average. Its strongest engineering signal is No scored metric, while No scored metric is the main limitation to consider before using it for demanding applications.

BEST FEATURE

No scored metric

MAIN LIMITATION

No scored metric

DATASET POSITION

—
—

Strengths

- Best available signal: No scored metric at 0/100.

Limitations

- Main watch item: No scored metric at 0/100.

Engineering trade-offs

- The report should be read as a suitability warning rather than a general-purpose recommendation.

Recommended applications

- 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	—	—	—
Tensile	—	—	—
Impact	—	—	—
Stiffness	—	—	—
Consistency	—	—	—
Layer adhesion	—	—	—
Thermal	—	—	—

Decision guidance

- Use this material mainly for low-load, visual or experimental parts.
- 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
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
No same-material peers with governed score context are available.					

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](#)