

Public printing recommendation

# Yasin Standard Gray PETG Gray

MaterialID MAT0055



3DP Iceland Labs

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WORKFLOW-RELIABILITY - Bug Fixes and Workflow

Reliability

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**Guidance boundary:** values below are shared base-material guidance resolved only through the canonical BaseMaterialId link. They are not manufacturer-, spool- or printer-specific validated settings. Missing fields remain Not recorded.

Overall  
**42/100**

Engineering axes  
**6/5**

Public rank  
**186 / 234**

MSRP USD/kg  
**24.00**

## Engineering profile



### 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

### Measured strengths

- Tensile: 34/100. Tensile behavior is competitive against the material-family context.
- Stiffness: 70/100. Stiffness is a relative advantage in this comparison group.

## Limitations

- Tensile: 34/100. Avoid using this as the primary choice for tensile-loaded parts.
- Impact: 9/100. Avoid high impact or shock-loaded components without additional validation.
- Layer adhesion: 31/100. Z-axis performance should be treated with caution.

## Engineering trade-offs

- Good repeatability does not compensate for low tensile capability in load-bearing designs.
- 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.

## Base-material printing guidance

| Guidance                   | Minimum        | Recommended | Maximum | Unit  |
|----------------------------|----------------|-------------|---------|-------|
| Nozzle temperature         | 230            | 250         | 260     | °C    |
| Bed temperature            | 75             | 85          | 85      | °C    |
| Print speed                | 55             | 130         | 130     | mm/s  |
| Cooling                    | 30             | 60          | 75      | %     |
| Guidance                   | Value          |             |         | Unit  |
| Cooling guidance           | Moderate       |             |         |       |
| Drying temperature         | 65             |             |         | °C    |
| Drying time                | 6              |             |         | hours |
| Enclosure                  | Not required   |             |         |       |
| Printer / G-code reference | PrusaCoreOneL  |             |         |       |
| Slicer profile reference   | Prusament PETG |             |         |       |

## Print workflow checks

- Confirm nozzle temperature, bed temperature, speed, cooling and drying requirements from the manufacturer profile or spool label.
- Print a small validation part before committing to a long, costly or safety-relevant print.
- Orient the part so the governing load does not rely on an unverified or weak engineering axis.
- Layer-adhesion evidence is weak; avoid critical Z-axis loading without additional validation.

# 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.

## Stronger same-family alternatives

| MaterialID | Material                                       | Manufacturer | Overall | Tensile | Impact |
|------------|------------------------------------------------|--------------|---------|---------|--------|
| MAT0236    | Yasin Standard Black PETG CF Black             | Yasin        | 50/100  | 30/100  | 20/100 |
| MAT0198    | Siraya Tech Fiberheart Black PETG Pro CF Black | Siraya Tech  | 49/100  | 33/100  | 19/100 |
| MAT0060    | ColorFabb XT PETG Pink                         | ColorFabb    | 48/100  | —       | —      |

Confirm exact settings against the manufacturer profile, spool label and actual printer/material combination. Results do not replace application-specific validation.

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