

# HP 3D High Reusability PA 11 Gen2

Multi Jet Fusion | PA11 | powder

Compiled by FabDigit from manufacturer technical data. Values below belong to this named product; unreported properties are omitted.

## Manufacturer: HP

Source revision: 4AA8-5018ENW, November 2025

Recorded system family: HP Jet Fusion 5600 series

As-printed colour: Gray

Test values are typical reported results, not guaranteed design allowables or finished-part certification. Review the complete source for specimen preparation, orientation and conditioning.

## Physical

| PROPERTY                 | VALUE             | TEST / CONDITION                           |
|--------------------------|-------------------|--------------------------------------------|
| Density                  | <b>1.04 g/cm3</b> | per ASTM D792; XY 1.04 / Z 1.04            |
| Melting Temperature (Tm) | <b>202 deg C</b>  | per ASTM D3418; Powder melting point (DSC) |

## Mechanical

| PROPERTY                         | VALUE           | TEST / CONDITION                                                                          |
|----------------------------------|-----------------|-------------------------------------------------------------------------------------------|
| Tensile Strength (Ultimate)      | <b>52 MPa</b>   | per ASTM D638; XY 52 / Z 52; 95 % of parts above 49 MPa                                   |
| Elastic (Young's) Modulus        | <b>1.74 GPa</b> | per ASTM D638; XY 1.74 / Z 1.80 GPa; 95 % of parts above 1.69 GPa                         |
| Elongation at Break              | <b>35 %</b>     | per ASTM D638; XY 35 / Z 20 (at yield XY 25 / Z 20); 95 % of parts above 27 % XY / 13 % Z |
| Charpy Impact, Notched (ISO 179) | <b>6 kJ/m2</b>  | per ASTM D256; Izod notched 3.2 mm, kJ/m2; XY 6.0 / Z 4.0                                 |

## Manufacturability

| PROPERTY                   | VALUE             | TEST / CONDITION |
|----------------------------|-------------------|------------------|
| Powder Particle Size (D50) | <b>54 um</b>      | per ASTM D3451   |
| Powder Bulk Density        | <b>0.48 g/cm3</b> | per ASTM D1895   |

## Selection and finishing

An MJF PA11 option for ductile functional parts when the selected HP platform and published test conditions match the application.

Design: Use MJF-specific data, maintain the required machine and refresh context, and validate living-hinge or repeated-flex geometry at the intended conditioning state.

Finishing: The catalog's gray as-printed state is not an arbitrary colour selection. Specify dyeing only as a separate post-process and test it if surface compliance matters.

## Source and document scope

### HP manufacturer source reference - 4AA8-5018ENW, November 2025

<https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=4AA8-5018ENW>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa11/hp-pa-11-gen2/>

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