

EOS PA 3200 GF

Selective Laser Sintering | PA12-GF | powder

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

Manufacturer: EOS

Source revision: Status 2026-05-25

Recorded system family: EOS FORMIGA P 110 / P 396 / P 500 / P 770

As-printed colour: White. Whitish; 40 wt% glass beads

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

Mechanical

PROPERTY	VALUE	TEST / CONDITION
Elastic (Young's) Modulus	3.2 GPa	per ISO 527-1/-2; X 3.2 / Y 3.2 / Z 2.5 GPa
Tensile Strength (Ultimate)	51 MPa	per ISO 527-1/-2; X 51 / Y 51 / Z 47
Elongation at Break	9 %	per ISO 527-1/-2; X 9 / Y 9 / Z 5.5
Flexural Modulus	2.9 GPa	per ISO 178
Flexural Strength	73 MPa	per ISO 178
Charpy Impact, Unnotched (ISO 179)	35 kJ/m2	per ISO 179
Charpy Impact, Notched (ISO 179)	5.4 kJ/m2	per ISO 179
Hardness, Shore D	80 Shore D	per ISO 7619-1

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	96 deg C	per ISO 75-1/-2
Heat Deflection Temp. @ 0.45 MPa	157 deg C	per ISO 75-1/-2

Physical

PROPERTY	VALUE	TEST / CONDITION
Density	1.22 g/cm3	per EOS Method

Selection and finishing

Glass-bead-filled PA12 for stiff, abrasion-exposed SLS parts where dimensional stability matters more than ductility.

Design: Use generous radii at stress concentrators and account for the lower Z modulus and elongation in a loaded part. Treat the filler as glass beads, not continuous glass fibre.

Finishing: Confirm the finished colour and available dye or coating route for this filled grade. Check adhesion and wear on a representative coupon.

Source and document scope

EOS manufacturer source reference - Status 2026-05-25

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-pa-3200-gf>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa12/eos-pa-3200-gf/>

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