

EOS PA 2200

Selective Laser Sintering | PA12 | powder

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

Manufacturer: EOS

Source revision: Status 2026-09-02

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

As-printed colour: White. Industry-reference PA12

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	1.65 GPa	per ISO 527-1/-2; X 1.65 / Y 1.65 / Z 1.65 GPa
Tensile Strength (Ultimate)	48 MPa	per ISO 527-1/-2; X 48 / Y 48 / Z 42
Elongation at Break	18 %	per ISO 527-1/-2; X 18 / Y 18 / Z 4
Flexural Modulus	1.5 GPa	per ISO 178
Charpy Impact, Unnotched (ISO 179)	53 kJ/m2	per ISO 179/1eU
Charpy Impact, Notched (ISO 179)	4.8 kJ/m2	per ISO 179/1eA
Hardness, Shore D	75 Shore D	per ISO 7619-1

Physical

PROPERTY	VALUE	TEST / CONDITION
Melting Temperature (Tm)	176 deg C	per ISO 11357-1/-3
Density	0.93 g/cm3	per EOS Method

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	64 deg C	per ISO 75-1/-2; X 64 / Z 57
Heat Deflection Temp. @ 0.45 MPa	157 deg C	per ISO 75-1/-2; X 157 / Z 145
Vicat Softening Point (B50)	176 deg C	per ISO 306/B50
Flammability (UL 94)	HB	Test passed at 0.5, 1.6 and 3.2 mm

Selection and finishing

A balanced white SLS PA12 choice when one powder must cover functional prototypes, fixtures and durable production-like components.

Design: Place the most strain-sensitive feature with the orientation data in mind and validate hinge, thread and loaded-snap performance on representative builds.

Finishing: Parts are white as printed; dyeing is a post-process choice, not a powder colour selector. Blasting can even the SLS texture but will not turn a porous surface into a sealed fluid barrier.

Source and document scope

EOS manufacturer source reference - Status 2026-09-02

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-pa-2200>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa12/eos-pa-2200/>

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