

EOS PA 2201

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 2026-08-09

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

As-printed colour: Natural. Unpigmented, slightly translucent

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	1.7 GPa	per ISO 527-1/-2; X 1.7 / Y 1.7 GPa
Tensile Strength (Ultimate)	48 MPa	per ISO 527-1/-2; X 48 / Y 48
Elongation at Break	15 %	per ISO 527-1/-2
Flexural Modulus	1.5 GPa	per ISO 178
Flexural Strength	58 MPa	per ISO 178
Charpy Impact, Unnotched (ISO 179)	53 kJ/m2	per ISO 179/1eU
Charpy Impact, Notched (ISO 179)	4.4 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
Vicat Softening Point (B50)	163 deg C	per ISO 306/B50

Selection and finishing

Pigment-free, slightly translucent EOS PA12 for balanced SLS prototypes, hinges and medical-industry models where natural appearance is useful.

Design: Qualify the exact process, orientation, cleaning and end-use contact. Treat a hinge or thread as a geometry-specific feature that needs representative testing.

Finishing: Natural, slightly translucent is the as-printed appearance. Dyeing or coating is a separate step and may remove that visual characteristic; qualify cleaning for any regulated use.

Source and document scope

EOS manufacturer source reference - Status 2026-08-09

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-pa-2201>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa12/eos-pa-2201/>

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