

EOS PA 1102 black

Selective Laser Sintering | PA11 | powder

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

Manufacturer: EOS

Source revision: Not stated in the catalog; check the original document.

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

As-printed colour: Black. Mass-pigmented

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	1.56 GPa	per ISO 527-1/-2; X 1.56 / Y 1.56 / Z 1.61 GPa
Tensile Strength (Ultimate)	48 MPa	per ISO 527-1/-2; X 48 / Y 48 / Z 48
Elongation at Break	30 %	per ISO 527-1/-2; X 30 / Y 30 / Z 15
Charpy Impact, Notched (ISO 179)	7.8 kJ/m2	per ISO 179/1eA; X 7.8 / Y 7.8 / Z 6.5

Physical

PROPERTY	VALUE	TEST / CONDITION
Melting Temperature (Tm)	201 deg C	per ISO 11357-1/-3
Density	0.99 g/cm3	per EOS Method

Selection and finishing

The black PA11 alternative when a dark mass-pigmented finished appearance and PA11 ductility are both needed.

Design: The published Z elongation is lower than X/Y; orient a repeatedly flexed or impact-critical feature deliberately and confirm it in the target build process.

Finishing: Black is as printed. A blast or smoothing treatment can change gloss and texture, but should be evaluated for dimensional and cosmetic acceptance.

Source and document scope

EOS manufacturer source reference

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-pa-1102-black>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa11/eos-pa-1102-black/>

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