

EOS PA 2210 FR

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: 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: White. Halogen-free flame retardant

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	2.5 GPa	per ISO 527-1/-2; Dry: X 2.5 / Y 2.5 / Z 2.3 GPa
Tensile Strength (Ultimate)	46 MPa	per ISO 527-1/-2; Dry: X 46 / Y 46 / Z 41
Elongation at Break	4 %	per ISO 527-1/-2; Dry: X 4 / Y 4 / Z 3
Flexural Modulus	2.3 GPa	per ISO 178
Flexural Strength	65 MPa	per ISO 178
Charpy Impact, Notched (ISO 179)	2.06 kJ/m2	per ISO 179/1eA

Physical

PROPERTY	VALUE	TEST / CONDITION
Melting Temperature (Tm)	185 deg C	per ISO 11357-1/-3

Physical - continued

PROPERTY	VALUE	TEST / CONDITION
Density	1.06 g/cm3	per EOS Method

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	95 deg C	per ISO 75-1/-2; X 95 / Z 108
Heat Deflection Temp. @ 0.45 MPa	165 deg C	per ISO 75-1/-2; X 165 / Z 170
Flammability (UL 94)	V-0	3 mm wall thickness

Selection and finishing

A halogen-free flame-retardant PA12 for electrical housings and transport interiors where the cited material fire classifications are relevant to the program.

Design: Keep the applicable wall thickness, orientation, conditioning and required test configuration in the design record. Design final certification testing around the actual part, finish and installation.

Finishing: The base appearance is white. Confirm any colour treatment for this grade, and review whether it changes the fire-test configuration used for qualification.

Source and document scope

EOS manufacturer source reference

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-pa-2210-fr>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa12/eos-pa-2210-fr/>

FabDigit is the publisher of this reference summary. The named manufacturer remains the source of the material data. This document is not a manufacturer-issued TDS, a certificate of conformity or a test report for an ordered part. Confirm the exact product, system, orientation, conditioning and final finish with the quote.