

EOS PrimePart FR (PA 2241 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. 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.

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	84 deg C	per ISO 75-1/-2
Heat Deflection Temp. @ 0.45 MPa	154 deg C	per ISO 75-1/-2

Mechanical

PROPERTY	VALUE	TEST / CONDITION
Elastic (Young's) Modulus	1.9 GPa	per ISO 527-1/-2; Dry: X 1.9 / Y 1.9 / Z 1.9 GPa
Tensile Strength (Ultimate)	49 MPa	per ISO 527-1/-2; Dry: X 49 / Y 49 / Z 46
Elongation at Break	15 %	per ISO 527-1/-2; Dry: X 15 / Y 15 / Z 6
Charpy Impact, Notched (ISO 179)	3.87 kJ/m2	per ISO 179/1eA

Physical

PROPERTY	VALUE	TEST / CONDITION
Melting Temperature (Tm)	185 deg C	per ISO 11357-1/-3
Density	1 g/cm3	per EOS Method

Selection and finishing

A halogenated flame-retardant EOS PA12 for aircraft-interior parts where its stated FAR/JAR/CS test configuration matches the qualification plan.

Design: Record wall thickness, orientation, conditioning, finish and the exact required aerospace test. Build the part-level compliance plan before release to production.

Finishing: White is the as-printed colour and this catalog row is not dyeable. Any coating, marking or cleaning step changes the tested configuration and must be reviewed in the qualification plan.

Source and document scope

EOS manufacturer source reference

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-pa-2241-fr>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa12/eos-primepart-fr-pa-2241-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.