

EOS HT-23 (PEKK-CF)

Selective Laser Sintering | PEKK | 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. 23% carbon fiber

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	6.5 GPa	per EOS Store typical part properties
Tensile Strength (Ultimate)	71 MPa	per EOS Store typical part properties
Elongation at Break	1.16 %	per EOS Store typical part properties

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	212 deg C	per EOS Store typical part properties; Reported at 1.82 MPa
Heat Deflection Temp. @ 0.45 MPa	275 deg C	per EOS Store typical part properties

Physical

PROPERTY	VALUE	TEST / CONDITION
Density	1.39 g/cm3	per EOS Store typical part properties

Selection and finishing

Carbon-fibre-filled PEKK for high-temperature, high-stiffness applications that warrant a specialty SLS material review.

Design: Avoid impact-driven geometries and sharp transitions. Define the target process, orientation, conditioning and required fire test before relying on any TDS value.

Finishing: Black is inherent to the CF-filled powder. Use mechanical cleanup only after checking dimensional requirements; do not assume cosmetic coatings retain thermal or fire performance.

Source and document scope

EOS manufacturer source reference

<https://store.eos.info/products/ht-23>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pekk/eos-ht-23-pekk-cf/>

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.