

Farsoon FS3401GB

Selective Laser Sintering | PA12-GF | powder

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

Manufacturer: Farsoon

Source revision: 2022-01-30

Recorded system family: Farsoon 402P / HT403P

As-printed colour: Gray

Test values are typical reported results, not guaranteed design allowables or finished-part certification. Review the complete source for specimen preparation, orientation and conditioning.

Physical

PROPERTY	VALUE	TEST / CONDITION
Density	1.26 g/cm3	per Manufacturer TDS
Melting Temperature (Tm)	184 deg C	per ISO 11357-1:2020

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	68.8 deg C	per ISO 75-1:2020
Heat Deflection Temp. @ 0.45 MPa	152.4 deg C	per ISO 75-1:2020

Mechanical

PROPERTY	VALUE	TEST / CONDITION
Tensile Strength (Ultimate)	44 MPa	per ISO 527-1:2019

Mechanical - continued

PROPERTY	VALUE	TEST / CONDITION
Elastic (Young's) Modulus	2.644 GPa	per ISO 527-1:2019
Elongation at Break	9.3 %	per ISO 527-1:2018
Flexural Strength	60.3 MPa	per ISO 178:2019
Flexural Modulus	2.21 GPa	per ISO 178:2019

Selection and finishing

A glass-bead-filled PA12 for rigid and dimensionally stable Farsoon SLS parts.

Design: Avoid strain-concentrating clips and use radii around holes and transitions. Validate orientation, heat exposure and dimensional acceptance on production geometry.

Finishing: Confirm the as-printed colour and compatible finishing route with the chosen system. Use an approved sample when texture or colour uniformity matters.

Source and document scope

Farsoon manufacturer source reference - 2022-01-30

https://www.farsoon-gl.com/wp-content/uploads/2021/07/Farsoon_Material_20220130_Polymer_FS3401GB.pdf

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa12/farsoon-fs3401gb/>

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