

Formlabs Polypropylene Powder

Selective Laser Sintering | PP | powder

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

Manufacturer status: discontinued. Retained for existing-design reference.

Manufacturer: Formlabs

Source revision: Rev 01 2023-12-13

Recorded system family: Fuse 1+ 30W

As-printed colour: Natural

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
Tensile Strength (Ultimate)	29 MPa	per ASTM D638-14 Type 1
Elastic (Young's) Modulus	1.64 GPa	per ASTM D638-14 Type 1
Elongation at Break	34 %	per ASTM D638-14 Type 1; X/Y 34 / Z 16
Flexural Strength	37 MPa	per ASTM D790-17
Flexural Modulus	1.33 GPa	per ASTM D790-17
Izod Impact, Notched	31 J/m	per ASTM D256-10

Thermal

PROPERTY	VALUE	TEST / CONDITION
Heat Deflection Temp. @ 1.8 MPa	58 deg C	per ASTM D648-16
Heat Deflection Temp. @ 0.45 MPa	113 deg C	per ASTM D648-16
Vicat Softening Point (B50)	132 deg C	per ASTM D1525

Physical

PROPERTY	VALUE	TEST / CONDITION
Water Absorption (24 h)	0.25 %	per ASTM D570; printed part

Source and document scope

Formlabs manufacturer source reference - Rev 01 2023-12-13

<https://formlabs-media.formlabs.com/datasheets/2301856-TDS-ENUS-0.pdf>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pp-h/formlabs-polypropylene/>

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