

Forward AM Ultrasint PA11

Selective Laser Sintering | PA11 | powder

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

Manufacturer: Forward AM

Source revision: Not stated in the catalog; check the original document.

Recorded system family: Open SLS platforms

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)	52 MPa	per ISO 527-2; Dry: X 52 / Z 54 at 23 deg C
Elastic (Young's) Modulus	1.75 GPa	per ISO 527-2; Dry: X 1.75 / Z 1.80 GPa at 23 deg C
Elongation at Break	28 %	per ISO 527-2; Dry: X 28 / Z 24 at 23 deg C
Flexural Modulus	1.75 GPa	per DIN EN ISO 178; Dry: X 1.75 / Z 1.80 GPa
Charpy Impact, Notched (ISO 179)	5.1 kJ/m2	per ISO 179-1; Dry: X 5.1 / Z 3.9
Charpy Impact, Unnotched (ISO 179)	184 kJ/m2	per ISO 179-1; Dry: X 184 / Z 85

Selection and finishing

Bio-based PA11 SLS powder for ductile, impact-resistant parts, especially where film-hinge or chemical-exposure screening is needed.

Design: The supplier reports X/Z data and defined drying/conditioning. Preserve that basis in test planning and check a representative feature after post-processing.

Finishing: The TDS identifies a solid white as-printed colour. Dyeing is a separate finishing operation; validate it when chemical exposure or skin contact is material to the application.

Source and document scope

Forward AM manufacturer source reference

https://forward-am.com/wp-content/uploads/2021/04/BASF_3DPS_TDS_Ultrasint_PA11.pdf

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa11/forward-am-ultrasint-pa11/>

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.