

Arkema Rilsan Invent Natural

Selective Laser Sintering | PA11 | powder

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

Manufacturer: Arkema

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
Elastic (Young's) Modulus	1.5 GPa	per ISO 527-1/-2
Tensile Strength (Ultimate)	45 MPa	per ISO 527-1/-2; Stress at break, 23 deg C, 50 mm/min
Elongation at Break	45 %	per ISO 527-1/-2; Strain at break, 23 deg C, 50 mm/min
Flexural Modulus	1.2 GPa	per ISO 178; 23 deg C
Hardness, Shore D	77 Shore D	per ISO 868

Selection and finishing

Natural PA11 for flexible, ductile SLS applications where a straightforward PA11 property set is sufficient.

Design: Treat this as a material-screening option and request build-specific process data before setting critical dimensions or life requirements.

Finishing: Natural is the starting colour; dyeing is a separate process. Confirm any coating or sealing need against actual fluid exposure.

Source and document scope

Arkema manufacturer source reference

https://hpp.arkema.com/assets/arkema/TDS_RILSAN%C2%AE%20PA11%20INVENT%20NAT_en_WW.pdf

FabDigit product page: <https://www.fabdigit.com/materials/polymer-pa11/arkema-rilsan-invent-natural/>

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