

EOS TPU 1301

Selective Laser Sintering | TPU | 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: White

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	0.06 GPa	per ISO 527-1/-2; X 0.06 / Y 0.06 / Z 0.06 GPa
Tensile Strength (Ultimate)	7 MPa	per ISO 527-1/-2; X 7 / Y 7 / Z 5
Elongation at Break	250 %	per ISO 527-1/-2; X 250 / Y 250 / Z 90
Hardness, Shore A	86 Shore A	per ISO 868

Physical

PROPERTY	VALUE	TEST / CONDITION
Density	1.11 g/cm3	per EOS Method

Selection and finishing

An SLS TPU for flexible, durable components that need rebound and toughness rather than rigid nylon behavior.

Design: Use lattice or wall-thickness trials for the target feel, and orient a repeatedly bent section around the weakest published direction. Define the required hardness and compression behavior explicitly.

Finishing: White parts can be dyed after printing. Surface finishing may alter grip, appearance and friction, so evaluate it against the intended contact surface.

Source and document scope

EOS manufacturer source reference

<https://www.eos.info/polymer-solutions/polymer-materials/data-sheets/mds-eos-tpu-1301>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-tpu/eos-tpu-1301/>

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