

SELECTIVE LASER SINTERING– DuraForm PA SLS

SLS 3D Printing – for additive manufacturing and rapid prototyping process, builds 3d rigid parts. Durable thermoplastic allows mechanical properties for fine-feature surface resolution. Excels in building thin walls to create prototypes and end-use parts without tooling.

Technology:	Selective Laser Sintering (SLS)
Material type:	Powder Form – Fused Thermoplastic
Elongation at Break % (D638):	14%
Tensile Modulus (D638):	230 kpsi~1586 MPa
Flexural Modulus (D790):	201 kpsi~1387 MPa
Ultimate Tensile Strength (D638):	6,237 psi~43 MPa
Heat Deflection Temp @ 0.45 MPa (D648):	356°F~180°C
Heat Deflection Temp @ 1.82 MPa (D648):	203°F~95°C
IZOD Impact Strength (Un-notched) (D256):	73°F~336 J/m @ 23°C
IZOD Impact Strength (Notched) (D256):	73°F~32 J/m @ 23°C
Available Colors:	White
Net Build Size Up To:	22" x 22" x 30" (550 x 550 x 750 mm)
Shore D Hardness:	73
Dielectric Constant~ 22C, 50%RH, 500V (D150):	2.73@ 1KHz
Layer thickness range (typical):	Min 0.003 in. ~ (0.08 mm) ~ Max 0.006 in. ~ (0.15 mm), feasible (0.004 in ~ 0.1 mm), accuracy may vary depending on build parameters.
Applications:	Rapid prototype volume, or production end-use parts, form, fit, and functional prototypes, complex thin-walled ducts, parts that require USP Class VI compliance or must be sterilized.

Disclaimer: The data above is general information and may vary from machine to machine or supplier to supplier. All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. These dimensional tolerances, buyer assumes sole responsibility for the design, and must test and verify the material of the product for each specific application applies to their internal requirements.