

Nanofabrica's workshop station technical specification

Printing system:

Resolution	1.9 micron
Repeatability	+/- 0.25 micron
Layer thickness	2 micron
Build speed	1 mm per hour
Build volume	50mm x 50mm x 100mm
Up time	~75%
Weight (net wight)	450kg
Weight (gross weight)	550kg
Dimensions	90cm X 90cm X 160cm
Operating temperature	24-290c
Optical path	Protected
Technology	DLP Stereolithography (SLA)

Materials:

Nanofabrica's system supports a range of materials. The material would be chosen according to the model requirements.

Material	Ultimate tensile strength	Young's Modulus	Elongation at failure	Flexural modulus	Notched IZOD	Heat deflection (66 psi)	Thermal expansion
ABS-like	52- 65 MPa	2.7 GPa	5-22%	2.1 - 7.6 GPa	32-44 J/ m2	48.5 °C	119.4 µm/m/°C
Polypropylene - like	25-52 MPa	1.5-2 GPa	50%-300%	0.8-3.8 GPa	70-350 J/m2	42-280	
Flexible Polypropylene-like	7-9 MPa	0.9-1.2GPa	70-85%	1.2-1.6GPa	38 J/m2	460c	
Alumina based	61Mpa	370GPa	NA	360GPa	117 J/m2		8.1 µm/m/°C
Zirconia	110MPa	205GPa	NA	800GPa	110 J/m2		10 µm/m/°C
Method	ASTM D 638-14	ASTM D 638-14	ASTM D 638-14	ASTM D 790-15	ASTM D 256-10	ASTM D 648-16	ASTM E 831-13

- * All materials' properties refer to a post curing state
- * ABS-like and Polypropylene-like could be transparent
- * Materials' properties may vary with part geometry, print orientation, print settings and temperature
- * All materials could be used in various colors

Contact us for more details at info@nano-fabrica.com