ProJet® 6000 & 7000

Professional 3D Printers

Step up to the gold standard in 3D printing with genuine SLA®

Take advantage of the unrivaled precision, surface quality, range of materials, reliability and speed of Stereolithography at a lower cost with the ProJet® 6000 and 7000 SLA 3D printer series. These highly productive systems offer all the benefits of SLA in a smaller footprint, so you can print parts for prototyping, rapid tooling and end-use with fine feature detail and exceptional mechanical properties, all at a lower per-part cost than other print technologies.

The ProJet 6000 and 7000 print at a resolution equivalent to 4000 DPI*, with more consistent mechanical properties in all three axes than other print technologies. Both systems are available in three models—SD, HD and MP—and in configurations up to 380 x 380 x 250 mm (15 x 15 x 10 in.).

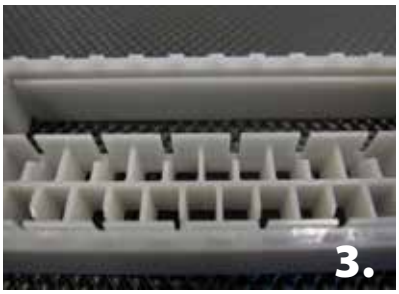
The ProJet 6000 and 7000 use a wide choice of VisiJet® performance-engineered materials that match or exceed traditional plastic properties, including resistance to high temperature, tensile strength and impact strength. VisiJet SL Clear is also USP Class VI certified, making it ideal for medical product manufacturing, especially in mass custom manufacturing projects such as hearing aids and dental applications.

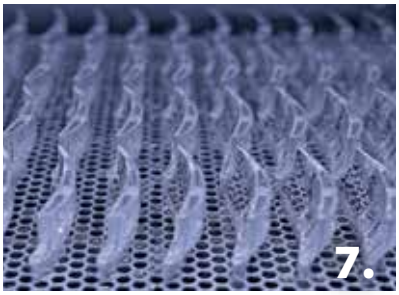
* Equivalent DPI based on laser spot location resolution of 0.00635 mm in 3DS testing

www.3dsystems.com

MANUFACTURING*THE*FUTURE

The ProJet® 6000 & 7000 offer the highest-quality parts for the toughest production applications





Highest precision. Highest accuracy. Highest quality.

1. VisiJet® SL Flex

- Polypropylene-like look and feel
- White opaque color
- High flexibility and shape retention
- High feature resolution and accuracy
- Ideal for snap-fits assemblies

2. VisiJet® SL Clear

- Polycarbonate-like look and feel
- Crystal-clear appearance
- Stiff and durable
- USP Class VI capable*
- Ideal for "see-thru" applications
- QuickCast™ capable to producing investment casting patterns

3. VisiJet® SL Tough

- PP/ABS-like performance
- Gray opaque color
- High durability and impact strength
- Ideal for form, fit and function testing
- Master patterns for RTV/Silicone molding

4. VisiJet® SL Impact

- PP/ABS-like performance
- White opaque color
- Exceptionally tough and durable
- Ideal for challenging functional assemblies and demanding applications
- Small lot direct manufacturing applications

5. VisiJet® SL Black

- ABS-like look and feel
- Black color
- High strength and good dimensional stability
- Ideal for automotive and consumer goods prototyping
- Ideal for electronics housing

6. VisiJet® SL e-Stone™

- Extreme accuracy and repeatability
- High-contrast peach color, replaces dental stone
- Ideal for crown and bridge restorations
- Working models for partial frameworks
- Orthodontic thermoforming applications

7. VisiJet® SL HiTemp

- High-temperature resistance to 130˚C+ (266˚F+)
- Translucent
- Humidity and chemically resistant with high rigidity
- Long term stable properties
- Ideal for under-the-hood component testing

8. VisiJet® SL Jewel

- Direct casting of jewelry patterns
- High contrast blue color
- Reduce cost and speed process with stone-in-place casting
- Models requiring high detail
- Excellent resolution and accuracy

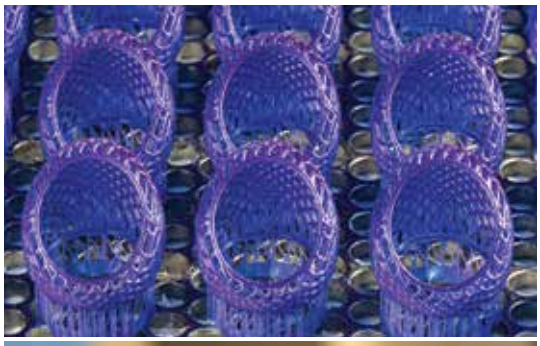
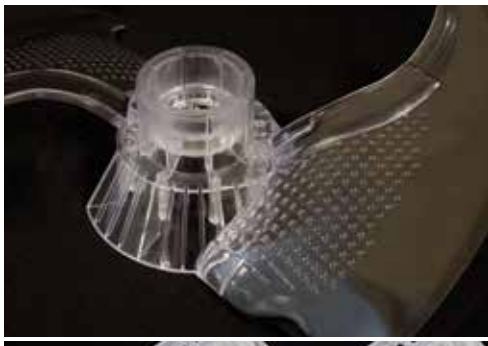
** DISCLAIMER: It is the responsibility of each customer to determine that its use of any Class VI certified VisiJet® material is safe, lawful and technically suitable to the customer's intended applications. Customers should conduct their own testing to ensure that this is the case.*

VisiJet® SL Materials for ProJet 6000 & 7000 Printers

The wide range of VisiJet® SL engineered materials offers the toughest and the highest quality parts to meet a variety of commercial and production applications.

Properties	ASTM	VisiJet® SL Flex	VisiJet® SL Tough	VisiJet® SL Clear	VisiJet® SL Black	VisiJet® SL Impact	VisiJet® SL HiTemp	VisiJet® SL e-Stone™	VisiJet® SL Jewel
Composition		UV Curable Plastic							
Color		White	Gray	Clear	Black	White	Clear Amber	Peach	Blue
Cartridge Volume		2.0 liters	2.0 liters	2.0 liters	2.0 liters	2.0 liters	2.0 liters	2.0 liters	2.0 liters
Density (liquid) @ 25˚C		1.14 g/cm³	1.13 g/cm³	1.1 g/cm³	1.13 g/cm³	1.12 g/cm³	1.17 g/cm³	1.13 g/cm³	1.08 g/cm³
Density (solid) @ 25˚C		1.19 g/cm³	1.19 g/cm³	1.17 g/cm³	1.15 g/cm³	1.18 g/cm³	1.23 g/cm³	1.19 g/cm³	1.18 g/cm³
Tensile Strength	D 638	38 MPa	41 MPa	52 MPa	45 MPa	48 MPa	66 MPa	38 MPa	40 MPa
Tensile Modulus	D 638	1620 MPa	1890 MPa	2560 MPa	2150 MPa	2626 MPa	3390 MPa	1630 MPa	1910 MPa
Elongation at Break	D 638	16%	18%	6%	5%	14%	6%	17%	12%
Flexural Strength	D 790	57 MPa	62 MPa	83 MPa	76 MPa	74 MPa	112 MPa	57 MPa	61 MPa
Flexural Modulus	D 790	1420 MPa	1850 MPa	2330 MPa	2350 MPa	2390 MPa	3080 MPa	1550 MPa	1824 MPa
Impact Strength (Notched Izod)	D 256	22 J/m	44 J/m	46 J/m	47 J/m	65 J/m	26 J/m	22 J/m	45 J/m
Heat Distortion Temp. (HDT) @ 0.45 MPa	D 648	61 °C	62 °C	51 °C	54 °C	47 °C	65/130 °C**	61 °C	38 °C
HDT @ 1.82 MPa	D 648	53 °C	54 °C	50 °C	51 °C	42 °C	57/110 °C**	53 °C	32 °C
Hardness, Shore D		80	86	85	86	80	86	80	72
Glass Transition (Tg)	DMA, E"	60 °C	52 °C	70 °C	62 °C	65 °C	62/132 °C**	60 °C	58 °C
USP Class VI Certified*		No	No	Yes	No	No	No	No	No
ProJet Compatibility		SD, HD, MP	SD, HD, MP	SD, HD, MP	SD, HD, MP	SD, HD, MP	SD, HD, MP	MP	HD, MP

*** After thermal postcure @ 160 ˚C*

ProJet® 6000 & 7000

Professional 3D Printers

Extend Innovation. Extend Production. Extend Choices.

	ProJet 6000 SD	ProJet 6000 HD	ProJet 6000 MP	ProJet 7000 SD	ProJet 7000 HD	ProJet 7000 MP
Net Build Volume (xyz)						
Tall	10 x 10 x 10 in (250 x 250 x 250 mm)			15 x 15 x 10 in (380 x 380 x 250 mm)		
Medium	10 x 10 x 5 in (250 x 250 x 125 mm)			N/A		
Short	10 x 10 x 2 in (250 x 250 x 50 mm)			15 x 15 x 2 in (380 x 380 x 50 mm)		
Resolution						
HD - 0.125 mm layers	•	•	•	•	•	•
UHD - 0.100 mm layers	•	•	•	•	•	•
XHD - 0.050 mm layers		•	•		•	•
Accuracy	0.001-0.002 inch per inch (0.025-0.05 mm per 25.4 mm) of part dimension Accuracy may vary depending on build parameters, part geometry and size, part orientation and post-processing methods			0.001-0.002 inch per inch (0.025-0.05 mm per 25.4 mm) of part dimension Accuracy may vary depending on build parameters, part geometry and size, part orientation and post-processing methods		
Materials						
VisiJet® SL Flex	•	•	•	•	•	•
VisiJet® SL Tough	•	•	•	•	•	•
VisiJet® SL Clear	•	•	•	•	•	•
VisiJet® SL Black	•	•	•	•	•	•
VisiJet® SL Impact	•	•	•	•	•	•
VisiJet® SL HiTemp	•	•	•	•	•	•
VisiJet® SL e-Stone™			•			•
VisiJet® SL Jewel		•	•		•	•
Material Packaging	Material in clean no drip 2.0 litre cartridges. System auto fills print tray between builds			Material in clean no drip 2.0 litre cartridges. System auto fills print tray between builds		
Electrical	100-240 VAC, 50/60 Hz, single-phase, 750 W			100-240 VAC, 50/60 Hz, single-phase, 750 W		
Dimensions (WxDxH)						
3D Printer Crated	66 x 35 x 79 in (1676 x 889 x 2006 mm)			73.5 x 38.5 x 81.5 in (1860 x 982 x 2070 mm)		
3D Printer Uncrated	31 x 29 x 72 in (787 x 737 x 1829 mm)			39.0 x 34.0 x 72 in (984 x 854 x 1829 mm)		
Weight						
3D Printer Crated	600 lb (272 kg)	600 lb (272 kg)	600 lb (272 kg)	800 lb (363 kg)	800 lb (363 kg)	800 lb (363 kg)
3D Printer Uncrated	400 lb (181 kg)	400 lb (181 kg)	400 lb (181 kg)	600 lb (272 kg)	600 lb (272 kg)	600 lb (272 kg)
3D Manage Software	Easy build job set-up, submission and job queue management Automatic part placement and build optimization tools Part stacking and nesting capability Extensive part editing tools Automatic support generation Job statistics reporting			Easy build job set-up, submission and job queue management Automatic part placement and build optimization tools Part stacking and nesting capability Extensive part editing tools Automatic support generation Job statistics reporting		
MP Auto Software	Automation utility for rapid manufacturing applications. Included only with the ProJet 6000 MP			Automation utility for rapid manufacturing applications. Included only with the ProJet 7000 MP		
Network Compatibility	Network ready with 10/100 Ethernet interface 4MB			Network ready with 10/100 Ethernet interface 4MB		
3D Manage Hardware Recommendation	Core 2 Duo 1.8 GHz with 4 GB RAM (OpenGL support 128 Mb video RAM)			Core 2 Duo 1.8 GHz with 4 GB RAM (OpenGL support 128 Mb video RAM)		
3D Manage Operating System	Windows XP Professional, Windows Vista, Windows 7			Windows XP Professional, Windows Vista, Windows 7		
Input Data File Formats Supported	STL and SLC	STL and SLC	STL and SLC	STL and SLC	STL and SLC	STL and SLC
Operating Temperature Range	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)	64-82 ºF (18-28 ºC)
Noise	< 65 dBa estimated	< 65 dBa estimated	< 65 dBa estimated	< 65 dBa estimated	< 65 dBa estimated	< 65 dBa estimated
Optional Accessories	UV Curing Units, Parts Washer and Right Height Table, ProJet® Cart Station			UV Curing Units, ProJet® Cart Station		
Certifications	CE marked	CE marked	CE marked	CE marked	CE marked	CE marked

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