

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	Grey	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/cm ³	1.13 g/cm ³	1.1 g/cm ³	1.13 g/cm ³	1.12 g/cm ³	1.17 g/cm ³	1.13 g/cm ³	1.08 g/cm ³
Density (solid) @ 25°C		1.19 g/cm ³	1.19 g/cm ³	1.17 g/cm ³	1.15 g/cm ³	1.18 g/cm ³	1.23 g/cm ³	1.19 g/cm ³	1.18 g/cm ³
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 Temperature (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

*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.

** After thermal postcure @ 160 °C



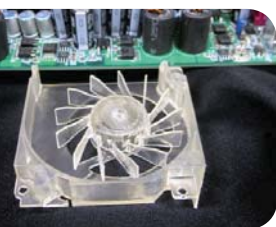
VisiJet® SL Black

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



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



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



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