

The VisiJet® Materials
For ProJet™ 6000 Professional 3D Printers



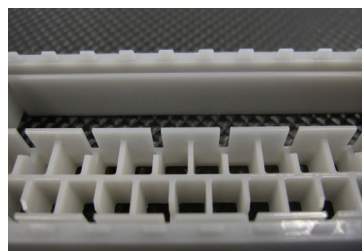
CREATE WITH CONFIDENCE

- Address a wide range of commercial applications
- Prints the highest quality parts available
- Delivers the toughest production applications
- Wide range of engineered functional materials



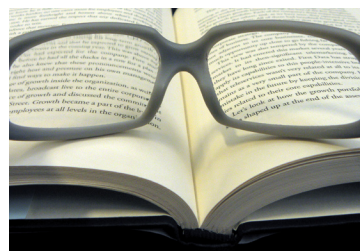
VisiJet® Flex

- Polypropylene-like look and feel
- High flexibility
- Ideal for snap-fits
- White opaque color



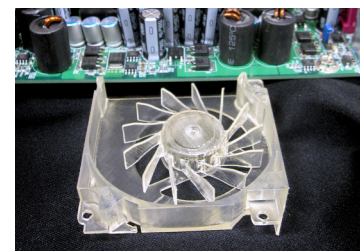
VisiJet® Tough

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



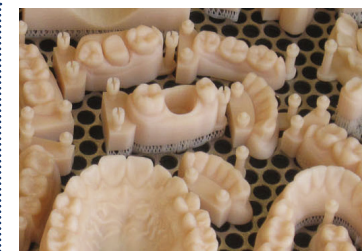
VisiJet® Clear

- Polycarbonate -like look and feel
- Water-clear appearance
- Stiff and durable
- Ideal for “see-thru” applications



VisiJet® HiTemp

- High temperature resistance to 130°C+ (266°F+)
- High rigidity and translucent
- Humidity and chemically resistant, long term stable properties
- Ideal for under-the-hood component testing
- Intake manifold, power steering reservoir and other elevated temperature applications



VisiJet® e-Stone™

- Extreme accuracy and repeatability
- Mechanical properties optimized for dental models
- Peach color provides high contrast for improved visualization
- Replaces dental stone for Orthodontic working and study models
- Ideal for crown and bridge restorations
- Working models for partial frameworks



The VisiJet® Materials

For ProJet™ 6000 Professional 3D Printers

The VisiJet® line of materials offers numerous capabilities to meet a wide variety of commercial applications. Using SLA® part technology, 3D Systems' ProJet™ 6000 Professional 3D Printers use VisiJet® Materials to build accurate, high-definition models and prototypes for proof of concept, functional testing, master patterns for moldmaking, direct investment casting, dental, architecture and other production applications.



Properties	ASTM	VisiJet® Flex	VisiJet® Tough	VisiJet® Clear	VisiJet® HI-Temp	VisiJet® e-Stone
		-----UV Curable Acrylic Plastic-----				
Color		White	Grey	Clear	Clear Amber	Peach
Cartridge Volume		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	1.17 g/cm ³	1.13 g/cm ³
Density (solid) @ 25°C		1.19 g/cm ³	1.19 g/cm ³	1.17 g/cm ³	1.23 g/cm ³	1.19 g/cm ³
Tensile Strength	D 638	38 MPa	41 MPa	52 MPa	66 MPa	38
Tensile Modulus	D 638	1620 MPa	1890 MPa	2560 MPa	3390 MPa	1630
Elongation at Break	D 638	16%	18%	6%	6%	17%
Flexural Strength	D 790	57 MPa	62 MPa	83 MPa	112 MPa	57 MPa
Flexural Modulus	D 790	1420 MPa	1850 MPa	2330 MPa	3080 MPa	1550 MPa
Impact Strength (Notched Izod)	D 256	22 J/m	44 J/m	46 J/m	26 J/m	22 J/m
Heat Deflection Temperature (HDT) @ 66 PSI	D 648	61° C	62° C	51° C	65/130* C	61° C
HDT @ 264 PSI	D 648	53° C	54° C	50° C	57/110* C	53° C
Hardness, Shore D		80	86	85	86	80
Glass Transition (Tg)	DMA, E"	60° C	52° C	70° C	62/132* C	60° C

*After thermal postcure @ 160 °C

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