

VisiJet®M3 Materials for ProJet SD & HD Printers

The VisiJet line of plastic materials offers numerous capabilities to meet a variety of commercial applications. 3D Systems' ProJet 3500 3D printers use VisiJet M3 materials to build accurate, high-definition models and prototypes for proof of concept, functional testing, master patterns for moldmaking, and direct investment casting. Vertical markets for the ProJet 3500 line include transportation, energy, consumer products, recreation, healthcare and education. Toughness, high temperature resistance, durability, stability, watertightness, biocompatibility and castability are a few of the key attributes you will find within the VisiJet M3 materials line. Parts can be drilled, glued, painted, plated, etc. Support material offers easy, non-hazardous post-processing and preserves delicate features.

Properties	Condition	VisiJet M3-X	VisiJet M3 Black	VisiJet M3 Crystal	VisiJet M3 Proplast	VisiJet M3 Navy	VisiJet M3 Techplast	VisiJet M3 Procast	VisiJet® S300
Composition		UV Curable Plastic							Wax Support Material
Color		White	Black	Natural	Natural	Blue	Gray	Dark Blue	White
Bottle Quantity		2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg	2 kg
Density @80 °C (liquid)	ASTM D4164	1.04 g/cm ³	1.02 g/cm ³	1.02 g/cm ³	1.02 g/cm ³	1.02 g/cm ³	1.02 g/cm ³	1.02 g/cm ³	N/A
Tensile Strength	ASTM D638	49 MPa	35.2 MPa	42.4 MPa	26.2 MPa	20.5 MPa	22.1 MPa	32 MPa	N/A
Tensile Modulus	ASTM D638	2168 MPa	1594 MPa	1463 MPa	1108 MPa	735 MPa	866 MPa	1724 MPa	N/A
Elongation at Break	ASTM D638	8.3 %	19.7 %	6.83 %	8.97 %	8 %	6.1 %	12.3 %	N/A
Flexural Strength	ASTM D790	65 MPa	44.5 MPa	49 MPa	26.6 MPa	28.1 MPa	28.1 MPa	45 MPa	N/A
Heat Distortion Temperature @0.45MPa	ASTM D648	88 °C	57 °C	56 °C	46 °C	46 °C	46 °C	N/A	N/A
Ash Content		N/A	N/A	N/A	0.01 %	0.01 %	0.01 %	0.01 %	N/A
Melting Point		N/A	N/A	N/A	N/A	N/A	N/A	N/A	60 °C
Softening Point		N/A	N/A	N/A	N/A	N/A	N/A	N/A	40 °C
USP Class VI Certified*		No	No	Yes	No	No	No	No	N/A
ProJet Compatibility		SD, HD	SD, HD	SD, HD	SD, HD	SD, HD	SD, HD	HD	SD, HD
Description		ABS-like Plastic	High strength & flexibility plastic	Tough Plastic, Translucent	Plastic, Natural	Plastic, Blue	Plastic, Gray	Castable Plastic	Non-toxic wax material for hands-free melt-away supports

DISCLAIMER: It is the responsibility of each customer to determine that its use of any VisiJet® material is safe, lawful and technically suitable to the customer's intended applications. The values presented here are for reference only and may vary. Customers should conduct their own testing to ensure suitability for their intended application.

