

VisiJet® Materials

For ProJet® 3500 Professional 3D Printers Series

The VisiJet® line of materials offers numerous capabilities to meet a variety of commercial applications. Using the Multi-Jet-Modeling (MJM) Technology, 3D Systems' 3D Printers use VisiJet® Materials to build accurate, high-definition models and prototypes for proof of concept, functional testing, master patterns for mold making, direct investment casting for transportation, energy, consumer products, recreation, healthcare, education and other vertical markets.



Properties	Condition	VisiJet® X	VisiJet® Crystal	VisiJet® Proplast	VisiJet® Navy	VisiJet® Techplast	VisiJet® Procast	VisiJet® Prowax	VisiJet® Hi-Cast	VisiJet® Dentcast	VisiJet® PearlStone	VisiJet® Stoneplast	VisiJet® S300	VisiJet® S400
Composition		UV Curable Plastic						100% Wax	UV Curable Plastic			Wax Support Material		
Color		White	Natural	Natural	Blue	Gray	Dark Blue	Light Blue	Navy Blue	Dark Green	White	Natural	White	White
Bottle Quantity, kg		2	2	2	2	2	2	1.75	1.75	2	2	2	2	1.75
Density @ 80 °C (liquid), g/cm³	ASTM D4164	1.04	1.02	1.02	1.02	1.02	1.02	0.81	0.81	1.02	1.04	1.02	N/A	0.87
Tensile Strength, MPa	ASTM D638	49	42.4	26.2	20.5	22.1	32	N/A	N/A	32	40	41	N/A	N/A
Tensile Modulus, MPa	ASTM D638	2168	1463	1108	735	866	1724	N/A	N/A	1724	1794	1850	N/A	N/A
Elongation at Break, %	ASTM D638	8.3	6.83	8.97	8	6.1	12.3	N/A	N/A	12.3	7.7	17	N/A	N/A
Flexural Strength, MPa	ASTM D638	65	49	26.6	28.1	28.1	45	N/A	N/A	45	N/A	51	N/A	N/A
Heat Distortion Temp. @ 0.45 MPa, °C	ASTM D648	88	56	46	46	46	N/A	N/A	N/A	N/A	88	56	N/A	N/A
Ash Content, %		N/A	N/A	0.01	0.01	0.01	0.01	N/A	N/A	0.01	N/A	N/A	N/A	N/A
Melting Point, °C		N/A	N/A	N/A	N/A	N/A	N/A	70	70	N/A	N/A	N/A	60	55-65
Softening Point, °C		N/A	N/A	N/A	N/A	N/A	N/A	52-62	52-62	N/A	N/A	N/A	40	N/A
Volumetric Shrinkage, %	40 °C to RT	N/A	N/A	N/A	N/A	N/A	N/A	2.24	2.24	N/A	N/A	N/A	N/A	N/A
Linear Shrinkage, %	40 °C to RT	N/A	N/A	N/A	N/A	N/A	N/A	0.75	0.75	N/A	N/A	N/A	N/A	N/A
USP Class VI Certified*		No	Yes	No	No	No	No	No	No	No	No	Yes	N/A	N/A
ProJet Compatibility		SD, HD	SD, HD	SD, HD	SD, HD	SD, HD	HD	CP	CPX	DP	MP	MP	SD, HD	CP, CPX
Description		ABS-like Plastic	Tough Plastic, Translucent	Plastic, Natural	Plastic, Blue	Plastic, Gray	Castable Plastic	General Foundry	High Res. Micro-Casting	Wax-up Castable Material	Solid stone appearance	Transparent, Clear or Stone Finish**	Non-toxic wax materials for hands-free supports removal	