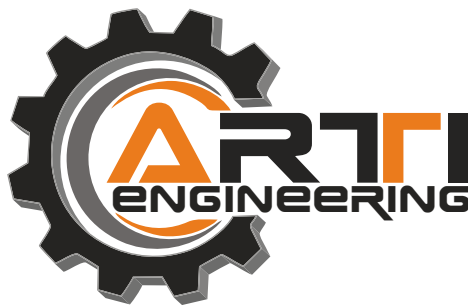




PROPERTIES	ASTM	Visijet Armor M2G-CL	Visijet ProFlex M2G-DUR	Visijet M2G-GRY	Visijet M2R-WT*	Visijet M2R-BK*	Visijet M2R-CL*	Visijet M2 ENT	Visijet M2 EBK	Visijet M2 SUP
Composition		UV curable plastic	UV curable plastic	UV curable plastic	UV curable plastic	UV curable plastic	UV curable plastic	UV curable elastomeric	UV curable elastomeric	Wax support
Color		Clear	Clear	Opaque Grey	Opaque White	Opaque Black	Translucent Clear	Translucent Natural	Opaque Black	White
USP Class VI Certified**		No	No	Yes	Yes	No	Yes	No	No	No
Bottle Quantity (kg)		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
Density @ 20 °C (solid) (g/cm³)	D792			1.16	1.16	1.16	1.16	1.12	1.12	N/A
Tensile Strength (MPa)	D638	30-35	15-20	35-45	35-45	45-55	35-45	0.2-0.4	0.2-0.4	N/A
Tensile Modulus (Mpa)	D638	1500-2000	250-350	1500-2000	1500-2000	2000-2500	1500-2000	0.27-0.43	0.27-0.43	N/A
Elongation at Break	D638	55-65	65-75	20-30%	20-30%	6-12%	20-30%	160-230%	160-230%	N/A
Flexural Strength (MPa)	D790	40-45	N/A	50-60	50-60	80-90	50-60	N/A	N/A	N/A
Flexural Modulus (Mpa)	D790	1000-1200	N/A	1700-2200	1700-2200	2400-3000	2000-2500	N/A	N/A	N/A
Impact Strength (Notched Izod) (J/m)	D256	40-45	70-80	20-25	20-25	15-18	20-25	N/A	N/A	N/A
Shore A Hardness	D240	N/A	N/A	N/A	N/A	N/A	N/A	28-32	28-32	N/A
Shore D Hardness	D240	70	60	77	77	81	77	N/A	N/A	N/A
Water Absorption (24 hr)	D570			0.50%	0.50%	0.50%	0.50%	0.90%	0.60%	N/A
Heat Distortion Temp @ 0.45 MPa	D648	47 °C	N/A	51 °C	51 °C	61 °C	51 °C	N/A	N/A	N/A
Heat Distortion Temp @ 1.82 Mpa	D648	43 °C	N/A	45 °C	45 °C	53 °C	45 °C	N/A	N/A	N/A
Melting Point		N/A	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	N/A	40 °C
Printer Compatibility		ProJet MJP 2500 Plus	ProJet MJP 2500/2500 Plus	ProJet MJP 2500 Plus	ProJet MJP 2500/2500 Plus	ProJet MJP 2500/2500 Plus	ProJet MJP 2500 Plus	ProJet MJP 2500 Plus	ProJet MJP 2500 Plus	ProJet MJP 2500/2500 Plus
Description		Transparent clear	Transparent clear	Rigid gray, high contrast	High modulus, rigid white plastic	White modulus, rigid black plastic	Transparent clear	Flexible, rubber-like	Flexible, rubber-like	Non-toxic wax for hands-free melt-away supports

* Respectively replaces former Visijet® M2 RWT, RBK and RCL materials
** Suitable for use in certain medical applications when post-processed following 3D Systems guidelines

PLASTIC MATRIX	Test(ASTM)	Onyx	Nylon
Tensile Modulus (GPa)	D638	1.4	0.94
Tensile Stress at Yield (MPa)	D638	36	31
Tensile Strain at Yield (%)	D638	25	27
Tensile Stress at Break (MPa)	D638	30	54
Tensile Strain at Break (%)	D638	58	260
Flexural Strength (MPa)	D790	81	32
Flexural Modulus (GPa)	D790	2.9	0.84
Heat Deflection Temp (°C)	D648B	145	49
Izod Impact - notched (J/m)	D256-10A	330	1000
Density (g/cm³)	-	1.2	1.1

FIBER REINFORCEMENT	ASTM	Carbon	Kevlar	Fiberglass	HSHT Fiberglass
Tensile Strength (Mpa)	D3039	800	610	590	600
Tensile Modulus (Gpa)	D3039	60	27	21	21
Tensile Strain at Break (%)	D3039	1.5	2.7	3.8	3.9
Flexural Strength (MPa)	D790	470	190	210	420
Flexural Modulus (GPa)	D790	51	26	22	21
Flexulus Strain at Break (%)	D790	1.2	2.1	1.1	2.2
Compressive Strength (MPa)	D6641	320	97	140	192
Compressive Modulus (MPa)	D6641	54	28	21	21
Compressive Strain at Break (%)	D6641	0.7	1.5	-	-
Heat Deflection Temp (°C)	D648B	105	105	105	150
Izod Impact - notched (J/m)	D256-10A	960	2000	2600	3100
Density (g/cm³)	-	1.4	1.2	1.5	1.5