



Polyjet– Verowhite & Veroclear

Volume d'impression 250 x 250 x 220 mm
 Épaisseur des couches 30 et 16 microns (veroclear)
 Précision ± 0,1 mm

veroclear & verowhite					
	ASTM	Units	Metric	Units	Imperial
Tensile strength	D-638-03	MPa	50-65	psi	7250-9450
Elongation at break	D-638-05	%	10-25	%	10-25
Modulus of elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000
Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000
Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562
Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5
Tg	DMA, E _α	°C	52-54	°F	126-129
Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86
Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76
Polymerized density	ASTM D792	g/cm ³	1.18-1.19		
Ash content	USP281	%	0.02-0.06	%	0.02-0.06



SLS- PA12, PA-GF, Alumide

Volume d'impression	650 x 330 x 550 mm
Épaisseur des couches	120 microns (verocelar)
Précision	± 0,3 mm
Biocompatibilité	Pa12 uniquement

	Units	Condition	PA 12	PA-GF	PA Alu-filled
Description			Polyamide 12 standard	Stiff	Stiff, metallic look, and easy to mill
Tensile Modulus	MPa	DIN EN ISO 527	1650 +/- 150	3200 +/- 200	3800 +/- 150
Tensile Strength	MPa	DIN EN ISO 527	48 +/- 3	51 +/- 3	48 +/- 3
Elongation at Break	%	DIN EN ISO 527	20 +/- 5	6 +/- 3	3.5 +/- 1
Flexural Modulus	N/mm ²	DIN EN ISO 178	1500 +/- 130	2900 +/- 150	3600 +/- 150
Charpy – Impact strength	MPa	DIN EN ISO 179	53 +/- 3.8	35 +/- 6	29 +/- 2
Charpy – Notched Impact Strength	MPa	DIN EN ISO 179	4.8 +/- 0.3	5.4 +/- 0.6	4.6 +/- 0.3
Izod – Impact Strength	kJ/m ²	DIN EN ISO 180	32.8 +/- 3.4	21.3 +/- 1.7	NA
Izod - Notched Impact Strength	kJ/m ²	DIN EN ISO 180	4.4 +/- 0.4	4.2 +/- 0.3	NA
Ball Indentation Hardness		DIN EN ISO 2039	77.6 +/- 2	98	NA
Shore D/ A-hardness		DIN 53505	D 75 +/- 2	D 80 +/- 2	D 76 +/- 2
Heat Deflection Temp	°C	ASTM D648 (1.82MPa)	86	110	130
Vicat Softening Temperature B/50	°C	DIN EN ISO 306	163	163	169
Vicat Softening Temperature A/50	°C	DIN EN ISO 306	181	179	NA
Density	g/cm ³		0.95 +/- 0.03	1.22 +/- 0.03	1.36 +/- 0.05
Actual values may vary with build conditions					



FDM – Onyx & Onyx Fr

Volume d'impression 330 x 270 x 200 mm
 Épaisseur des couches 50 microns
 Précision $\pm 0,12$ mm
 Norme UL94 V0 Onyx FR (flame-retardant)

Composite Base	Test (ASTM)	Onyx	Onyx FR	Onyx ESD
Tensile Modulus (GPa)	D638	2.4	3.0	4.2
Tensile Stress at Yield (MPa)	D638	40	41	52
Tensile Stress at Break (MPa)	D638	37	40	50
Tensile Strain at Break (%)	D638	25	18	25
Flexural Strength (MPa)	D790 ¹	71	71	83
Flexural Modulus (GPa)	D790 ¹	3.0	3.6	3.7
Heat Deflection Temp (°C)	D648 B	145	145	138
Flame Resistance	UL94	—	V-0 ²	—
Izod Impact - notched (J/m)	D256-10 A	330	—	44
Surface Resistance (Ω)	ANSI/ESD STM11.11 ³	—	—	$10^5 - 10^7$
Density (g/cm ³)	—	1.2	1.2	1.2