



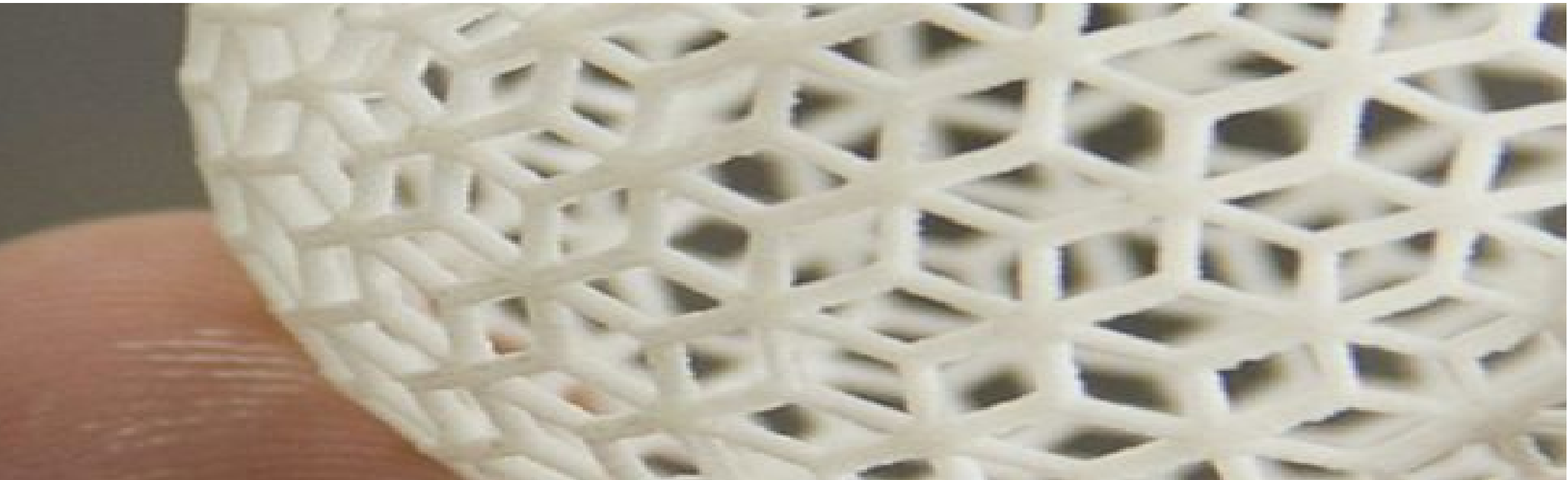
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Additive Inc - RAPID PROTOTYPING

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The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values will vary with build conditions.

Prototype & Production Materials Comparison Chart





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About Us

Additive, Inc is among leading rapid prototyping companies specializing in high quality FDM (Fused Deposition Modeling) and PolyJet rapid prototyping services. The FDM process is ideal for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. While the PolyJet process will produce high quality and fine detailed prototypes. Whatever your rapid prototyper needs, Additive, Inc will be able to quickly produce your parts.

Get your parts FAST! We own and operate all of our FDM and PolyJet rapid prototyping services machines. This means we don't have to send your parts to a secondary service bureau and mark-up the price, making the process faster and more affordable for you.

Additive, Inc (among leading rapid prototyping companies) provides you or your company the tools for a fast, easy and affordable rapid prototyper.

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Materials Comparison Chart

Thermoplastics					
Material	ABS-M30	PC	PC-ISO	PC/ABS	ULTEM
Unique Properties	Stronger than ABS	High Tensile Strength	ISO 10993-1 Certified, USP Class VI Classification 1, Medical Applications	Highest Impact Resistance	Flame, Smoke, Toxicity (FST) Certified
Available Colors	White Natural (off-white) Black	White	White	Black	Tan
Tensile Strength^{1,2}	5,200 psi ¹ (36 MPa)	9,800 psi ¹ (68MPa)	8,265 psi ¹ (57 MPa)	5,900 psi ¹ (41 MPa)	10,390 psi ¹ (71.64 MPa)
Tensile Elongation	4.0%	4.8%	4.3%	6.0%	5.9%

Flexural Stress	8,800 psi (61 MPa)	15,100 psi (104 MPa)	13,089 psi (90 MPa)	9,800 psi (68 MPa)	16,700 psi (115.1 MPa)
IZOD Impact, notched	2.6 ft-lb/in (139 J/m)	1.0 ft-lb/in (53 J/m)	1.6 ft-lb/in (86 J/m)	3.7 ft-lb/in (196 J/m)	2.0 ft-lb/in (106 J/m)
Shore Hardness	-	-	-	-	-
Heat Deflection <i>(Thermoplastics @ @ 66 psi)</i> <i>(Photopolymers @ 0.45 Mpa)</i>	204°F (96°C)	280°F (138°C)	271°F (133°C)	230°F (110°C)	307°F (153°C)
Flame Classification	-	-	-	-	-
View PDF					
Maximum Build Dimensions³	14" x 16" x 16"				

PHOTOPOLYMERS

			VERO		TANGO
Material	Clear (FC810)	DurusWhite	Black (FC870)	Gray	Black (FC970)
Unique Properties	Rigid, Clear, Transparent	Polypropylenelike appearance	Higher flexural stress & heat deflection than VERO White	Flexible	
Available Colors	Clear	White	Black	Gray	Black
Tensile Strength^{1,2}	7,250-9450 psi ¹ (50-65 MPa)	3,089 psi ¹ (21.3 MPa)	7,352 psi ¹ (50.7 MPa)	8,700 psi ¹ (60 MPa)	290 psi ² (2.00 MPa)
Tensile Elongation	10-25%	44%	18.0%	15%	47.7% ²
Flexural Stress	11,000-16,000 psi (75-110 Mpa)	4,814 psi (33.2 Mpa)	11,542 psi (79.6 Mpa)	13,775 psi (85.5 Mpa)	
IZOD Impact, notched	0.375-0.562 ft-lb/in (20-30 J/m)	0.83 ft-lb/in (44.22 J/m)	0.45 ft-lb/in (23.9 J/m)	0.47 ft-lb/in (25 J/m)	

Shore Hardness	-	Scale D (76)	Scale D (83)	Scale D (86)	ScaleA (61)
Heat Deflection <i>(Thermoplastics @ @ 66 psi)</i> <i>(Photopolymers @ 0.45 Mpa)</i>	113-122°F (45-50°C)	98°F (36/3°C)	117°F (47°C)	120°F (48.8°C)	
Flame Classification	-	-	-	-	-
View PDF					
Maximum Build Dimensions3	12.9" x 12.9" x 7.9"				