

# 3D Stereolithography Printers

The gold standard in Stereolithography (SLA) 3D printing



**Projet® 6000 HD**



**Projet® 7000 HD**



**ProX® 800**



**ProX® 950**

Max Build Volume (xyz) <sup>1</sup>	Flexible build volume options with interchangeable material delivery modules (MDM)			
Full	10 x 10 x 10 in (250 x 250 x 250 mm) 10.6 U.S. gal (40 l)	15 x 15 x 10 in (380 x 380 x 250 mm) 22.2 U.S. gal (84 l)	25.6 x 29.5 x 21.65 in (650 x 750 x 550 mm); 109.3 U.S. gal (414 l)	59 x 30 x 22 in (1500 x 750 x 550 mm); 247 U.S. gal (935 l)
Half	10 x 10 x 5 in (250 x 250 x 125 mm) 5.8 U.S. gal (22 l)	N/A	25.6 x 29.5 x 10.8 in (650 x 750 x 275 mm); 71.9 U.S. gal (272 l)	N/A
Short	10 x 10 x 2 in (250 x 250 x 50 mm) 6.3 U.S. gal (24 l)	15 x 15 x 2 in (380 x 380 x 50 mm) 8.5 U.S. gal (32 l)	25.6 x 29.5 x 1.97 in (650 x 750 x 50 mm); 25.09 U.S. gal (95 l)	N/A
<b>Max Part Weight</b>	21.1 lb (9.6 kg)	47.6 lb (21.6 kg)	165 lbs (75 kg)	330 lbs (150 kg)
<b>Max Resolution</b>	4000 DPI <sup>2</sup>	4000 DPI <sup>2</sup>	4000 DPI <sup>2</sup>	4000 DPI <sup>2</sup>
<b>Intelligent Scanning Strategy</b>	Automated in build dual mode speeds: Fine point scanning for small features and external surfaces, broader scanning for larger features and internal surfaces.			
Fine Feature/Outer Surface Scanning	Down to 75 µm (0.003 in)	Down to 75 µm (0.003 in)	125 µm (0.005 in)	125 µm (0.005 in)
Larger Feature/Internal Surface Scanning	750 µm (0.030 in)	750 µm (0.030 in)	750 µm (0.030 in)	750 µm (0.030 in)
<b>Accuracy</b>	0.001-0.002 inch per inch (0.025-0.05 mm per 25.4 mm) of part dimension Accuracy may vary depending on build parameters, part geometry and size, part orientation and post-processing methods.			
<b>Materials</b>	Builds with broadest range of 3D printing materials with exceptional mechanical properties. See back page for choice of available materials and <a href="http://www.3dsystems.com">www.3dsystems.com</a> for all available materials.			
<b>Material Packaging</b>	2L click in cartridges for hands-free, drip-free automated refill process.		10 kg click in cartridges for hands-free, drip-free automated refill process.	
<b>Electrical Requirements</b>	100-240 VAC, 50/60 Hz, single-phase, 750 W	100-240 VAC, 50/60 Hz, single-phase, 750 W	200 - 240 VAC 50/60 Hz, single-phase, 30 amps	200 - 240 VAC 50/60 Hz, single-phase, 50 amps
<b>Dimensions (WxDxH)</b>				
3D Printer Crated	66 x 35 x 79 in (1676 x 889 x 2006 mm)	73.5 x 38.5 x 81.5 in (1860 x 982 x 2070 mm)	75 x 64 x 98 in (190 x 163 x 248 cm)	95 x 68 x 100 in (242 x 173 x 254 cm)
3D Printer Uncrated	31 x 29 x 72 in (787 x 737 x 1829 mm)	39.0 x 34.0 x 72 in (984 x 854 x 1829 mm)	50 x 63 x 89 in (137 x 160 x 226 cm)	87 x 63 x 89 in (220 x 160 x 226 cm)
<b>Weight (not incl. MDM)</b>				
3D Printer Crated	600 lb (272 kg)	800 lb (363 kg)	2500 lbs (1134 kg)	4300 lbs (1951 kg)
3D Printer Uncrated	400 lb (181 kg)	600 lb (272 kg)	2000 lbs (907 kg)	3800 lbs (1724 kg)
<b>SLA Printer Interface Software</b> (also referred to as printer control code)	Fast and intuitive printer interface software with advanced capabilities to maximize machine utilization. Use advanced tools to restart any build and edit recoating parameters on the fly to ensure a successful build.			
<b>3D Sprint™</b>	3D Systems' exclusive software for preparing and optimizing design file data, and managing the additive manufacturing process on its plastic 3D printers.			
<b>Printer Network Compatibility</b>	Network ready with 10/100 Ethernet interface 4MB USB port		Ethernet, IEEE 802.3 using TCP/IP and NFS USB port	
<b>3D Sprint Software and Hardware Requirements</b>	Windows 7(SP1)/8/10 (64-bit), U Intel® or AMD® processor with a minimum of 2.0GHz, 4 GB RAM, 7GB of available hard-disk space, OpenGL 2.1 and GLSL 1.20 enabled graphics card, 1280x960 screen resolution, Graphics card: Intel HD or Iris (HD 4000 or newer), or Nvidia GeForce GTX 285, Quadro 1000 or newer, or AMD Radeon HD 6450 or newer Internet Explorer 9 or newer Microsoft .NET Framework 4.6.1 (installed with application)			
<b>Printer Operating System</b>	Windows® XP Professional, Windows® Vista, Windows® 7		Windows® 7 and newer	
<b>Input Data File Formats Supported</b>	STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, MJPDDD, 3DPRINT, BFF, IGES, IGS, STEP and STP			
<b>Operating Temperature Range*</b>	64-82 °F (18-28 °C)	64-82 °F (18-28 °C)	68-79 °F (20-26 °C)	68-79 °F (20-26 °C)
<b>Noise</b>	< 65 dBA estimated	< 65 dBA estimated	Not to exceed 70 dBA	Not to exceed 70 dBA
<b>Interchangeable Material Deliverable Modules (MDMs) with Integrated Elevator and Removable Applicator</b>	Additional MDM (3 sizes)	Additional MDM (2 sizes)	Additional MDM (3 sizes)	Additional MDM (1 size)
<b>Accessories</b>	UV Curing Units Parts Washer Right Height Table Projet® Cart Station	UV Curing Units Projet® Cart Station	Manual Offload Cart ProCure™ 750 UV Finisher	Manual Offload Cart ProCure™ 1500 UV Finisher

<sup>1</sup> Maximum part size is dependent on geometry, among other factors.

<sup>2</sup> Equivalent DPI based on laser spot location resolution of 0.00635 mm in 3D Systems' testing.

# Accura® Materials for SLA Printing on ProX® 800 & 950

Plastic and composite parts made from Accura SLA materials are the industry's gold standard for accuracy, providing excellent resolution, surface finish and dimensional tolerances. Accura SLA materials offer the broadest choice of materials in 3D printing and can easily be optimized for specific prototyping, casting, tooling and direct manufacturing applications.



Various Accura materials for form and fit tests of a dashboard



Accura Xtreme



Accura CastPro

Materials for ProX SLA Printers <sup>1</sup>	Viscosity (cps) (@ 30 °C)	Flexural Modulus (MPa) ASTM D 790	Flexural Strength (MPa) ASTM D 790	Tensile Modulus (MPa) ASTM D 638	Tensile Strength (MPa) ASTM D 638	Elongation at Break ASTM D 638	Impact Strength (J/m) ASTM D 256	Heat Deflection Temp (°C) ASTM D 648
<b>Polypropylene-Like Class</b>								
Accura 25	250	1380-1660	55-58	1590-1660	38	13-20 %	19-24	@ 66 PSI - 58-63 @ 264 PSI - 51-55
Accura PP White (SL 7811)	210	1960-2060	64-66	2030-2230	40-42	7-13 %	42-59	@ 66 PSI - 47
<b>Tough/Durable Class</b>								
Accura Xtreme	250-300	1520-2070	52-71	1790-1980	33-44	14-22 %	35-52	@ 66 PSI - 62 @ 264 PSI - 54
Accura Xtreme White 200	650-750	2350-2550	75-79	2300-2630	45-50	7-20 %	55-66	@ 66 PSI - 47 @ 264 PSI - 42
<b>ABS-Like Class</b>								
Accura 55	155-185	2690-3240	88-110	3200-3380	63-68	5-8 %	12-22	@ 66 PSI - 55-58 @ 264 PSI - 51-53
Accura ABS White (SL 7810)	210	2040-2120	74-76	2290-2400	46-48	8-14 %	24-47	@ 66 PSI - 51
Accura ABS Black (SL 7820)	210	2260-2370	75-78	1890-2440	45-47	6-13 %	39-56	@ 66 PSI - 51
<b>Clear Class</b>								
Accura ClearVue Free (SL 7870)	180	1940-2250	73-76	1920-2010	38-42	10-22 %	23-51	@ 66 PSI - 48 @ 264 PSI - 41
Accura ClearVue <sup>2</sup>	235-260	1980-2310	72-84	2270-2640	46-53	3-15 %	40-58	@ 66 PSI - 51 @ 264 PSI - 50
Accura 60	150-180	2700-3000	87-101	2690-3100	58-68	5-13 %	15-25	@ 66 PSI - 53-55 @ 264 PSI - 48-50
<b>Casting Class</b>								
Accura CastPro	240-260	2310-2340	82-84	2490-2620	52-53	4.1-8.3 %	43-49.5	@ 66 PSI - 51 @ 264 PSI - 50
Accura CastPro Free (SL 7800)	205	2200-2480	81-83	1940-2350	45-48	9-19 %	35-50	@ 66 PSI - 62
<b>High Temp &amp; Composite Class</b>								
Accura Phoenix	120-130	2140-2330	96-100	2340-2640	45-61	3-5 %	13-19	@ 66 PSI - 137 <sup>3</sup> @ 264 PSI - 103 <sup>3</sup>
Accura 48 HTR	200-250	2760-3400	105-118	2800-3980	64-67	4-7 %	22-29	@ 66 PSI - 130 <sup>3</sup> @ 264 PSI - 110 <sup>3</sup>
Accura SL 5530	210-270	2620-3240	63-87	2889-3144	57-61	3.8-4.4 %	21	@ 66 PSI - 170-250 <sup>3</sup> @ 264 PSI - 110-120 <sup>3</sup>
Accura PEAK	605	4180-4790	77-126	4220-4790	57-78	1.3-2.5 %	21.3-27.3	@ 66 PSI - 153 <sup>3</sup> @ 264 PSI - 124 <sup>3</sup>
Accura HPC	700-1000	8700-10200	137-157	9000-9700	66-89	0.8-1.9 %	14-17	@ 66 PSI - 250 <sup>3</sup> @ 264 PSI - 87 <sup>3</sup>
Accura CeraMAX	1500-2000	8270-8370	137-145	9460-9680	78-87	1.0-1.5 %	14.5-17.9	@ 66 PSI - 220 <sup>3</sup> @ 264 PSI - 97 <sup>3</sup>
Accura Bluestone	1200-1800	8300-9800	124-154	7600-11700	66-68	1.4-2.4 %	13-17	@ 66 PSI - 267-284 <sup>3</sup>
<b>Dental Class</b>								
Accura e-Stone™	200-300	1350-1750	54-59	1500-1750	37-39	10-23 %	18-25	@ 66 PSI - 58-63 @ 264 PSI - 51-55
<b>Medical Class</b>								
Accura ClearVue <sup>2</sup>	235-260	1980-2310	72-84	2270-2640	46-53	3-15 %	40-58	@ 66 PSI - 51 @ 264 PSI - 50

<sup>1</sup> Not all materials will build in all build modes and on every printer model. Check with your local sales representative to verify that the combination you need is available.

<sup>2</sup> USP Class VI capable

<sup>3</sup> After thermal postcure

# Accura® Materials for SLA Printing on ProJet® 6000 & 7000

The wide range of Accura engineered materials offers the toughest and the highest quality parts to meet a broad range of commercial and production applications.



Accura ABS Black



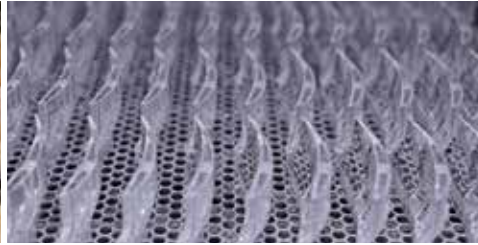
Accura Sapphire



Accura Xtreme (frame) and Accura ClearVue (lenses)



Accura e-Stone



Accura ClearVue



Accura Xtreme White 200

Materials for ProJet 6000/7000 Printers <sup>1</sup>	Viscosity (cps)	Flexural Modulus (MPa)	Flexural Strength (MPa)	Tensile Modulus (MPa)	Tensile Strength (MPa)	Elongation at Break	Impact Strength (J/m)	Heat Deflection Temp (°C)
	(@ 30 °C)	ASTM D 790	ASTM D 790	ASTM D 638	ASTM D 638	ASTM D 638	ASTM D 256	ASTM D 648
<b>Polypropylene-Like Class</b>								@ 1.82 MPa
Accura 25	250	1420	57	1620	38	16%	22	53 °C
<b>Tough/Durable Class</b>								
Accura Xtreme	250-300	1850	62	1890	41	18%	44	54 °C
Accura Xtreme White 200	650-750	2390	74	2630	48	14%	65	42 °C
<b>ABS-Like Class</b>								
Accura ABS Black (SL 7820)	210	2350	76	2150	45	5%	47	51 °C
<b>Clear/Castable Class</b>								
Accura ClearVue <sup>2</sup>	235-260	2330	83	2560	52	6%	46	50 °C
<b>High Temp Class</b>								
Accura Phoenix	120-130	2470	103	2660	65	7 %	24	@ .45 MPa - 129 <sup>3</sup> @ 1.82 MPa - 104 <sup>3</sup>
Accura 48 HTR	200-250	3080	112	3390	66	6 %	26	@ .45 MPa - 130 <sup>3</sup> @ 1.82 MPa - 110 <sup>3</sup>
<b>Jewelry &amp; Dental Class</b>								
Accura Sapphire	160-200	1824	61	1910	40	12%	45	32 °C
Accura e-Stone™	200-300	1550	57	1630	38	17%	22	53 °C
<b>Medical Class</b>								
Accura ClearVue <sup>2</sup>	235-260	2330	83	2560	52	6%	46	50 °C

<sup>1</sup> Not all materials will build in all build modes and on every printer model. Check with your local sales representative to verify that the combination you need is available.

<sup>2</sup> USP Class VI capable

<sup>3</sup> After thermal postcure

Contact Us

[www.3dsystems.com](http://www.3dsystems.com)