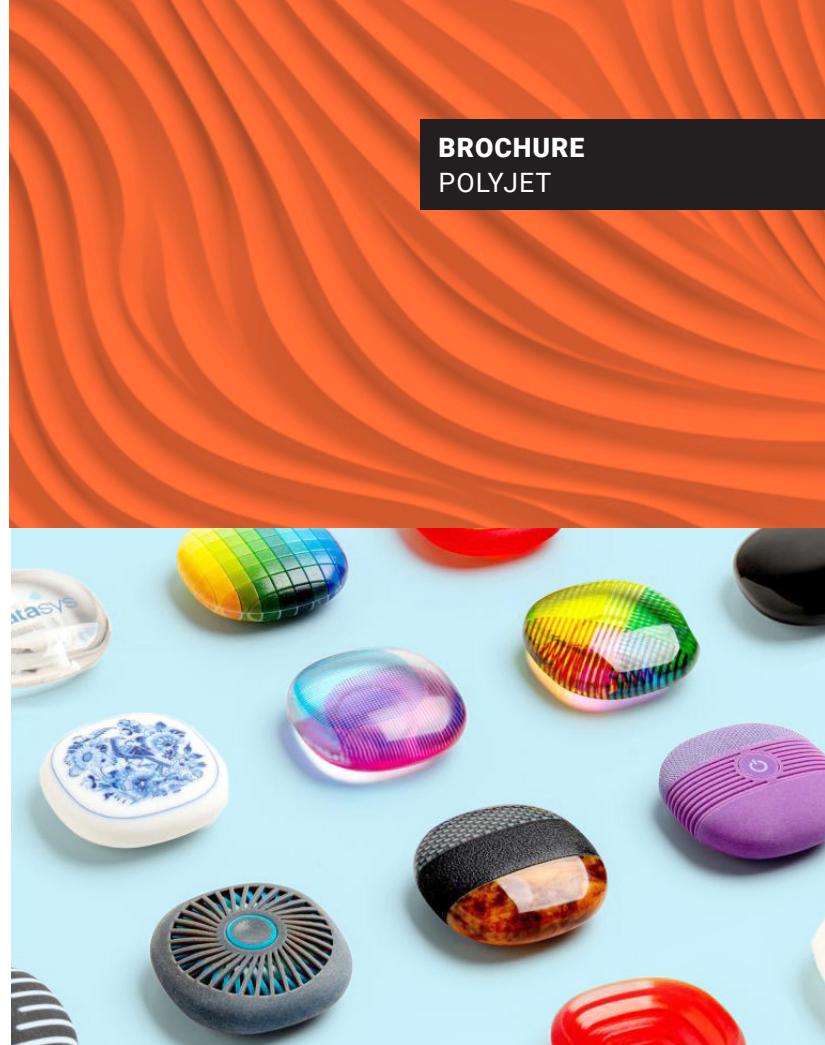




PolyJet Systems and Materials

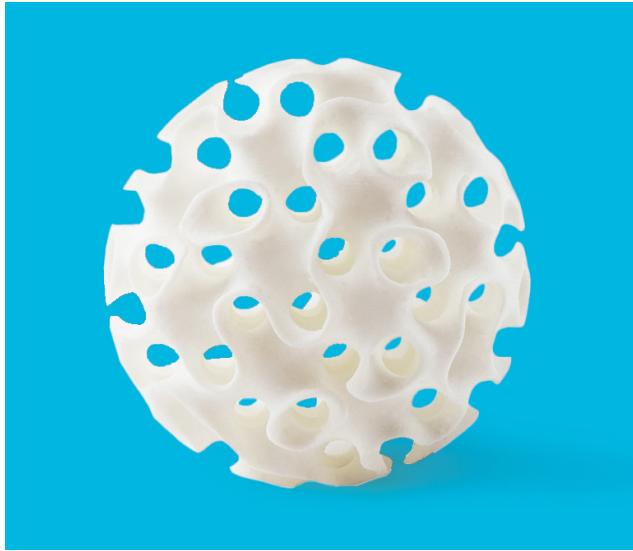
BROCHURE
POLYJET





Precision, Power, Pace and Productivity





↑ Agilus30 White geometric orb

Dream it.

Print it.

PolyJet™ 3D printers empower designers, engineers, educators and healthcare professionals to create and problem-solve without the limitations of traditional methods of modeling. The power lies with PolyJet technology, curable liquid photopolymers capable of producing very fine layers for smooth surfaces, intricate details and vivid color.

Stratasys® PolyJet technology helps bring ideas to life in virtually any spectrum of colors, and any combination of translucency, opacity, rigidity and elasticity, while simulating a number of desired materials and finishes.

The versatility of PolyJet technology is based on a wide range of available material properties and a suite of 3D printers to suit varied budgets and applications. No matter the industry, PolyJet technology provides the power to hone ideas quickly and accurately.

- Help designers save 50 percent of their time. Product designers and developers can create realistic prototypes, models, and functional parts with full-color elements, labels and true-to-life textures in one operation.
- Full-color, flexible materials enable lifelike anatomical models for physician training and pre-surgical planning that lower operating room costs and improve patient outcomes.
- Educators can empower students to design, test and discover in a matter of days, not weeks.
- Dental labs can increase efficiency by printing large quantities of varied dental parts with different materials together in a single unattended print job, reducing labor while significantly scaling capacity.

Simple choice. Any application.

PolyJet 3D printers are scaled to meet diverse needs in capability and printing capacity. The printers fall within two groups: single-material printers that jet one material (base resin) at a time and multimaterial printers with the capacity to jet several base resins simultaneously.



↑ Vivid cyan light



Print single materials.

Single-material printers start with affordable desktop models, featuring PolyJet technology's fine resolution and smooth surface finish. Depending on the specific model, these printers employ a single base resin or several base resins, with a choice of either rigid or flexible characteristics. All single-material printers use SUP705™ support material, removable with a water jet. Several models are also compatible with SUP706B™ soluble support for hands-free, labor-saving support removal.



↑ Vivid tail light

Print multiple materials.

Multimaterial printers offer the most in PolyJet versatility, performance and productivity, exploiting the benefits of multi-jetting technology. Multimaterial printers enable mixed parts – the combination of several base resins in the same part – and Digital Materials, which is the blending of individual base resins to create new materials with distinct properties. Mixed trays are also possible, meaning one build tray can accommodate multiple parts made with different materials, increasing efficiency.

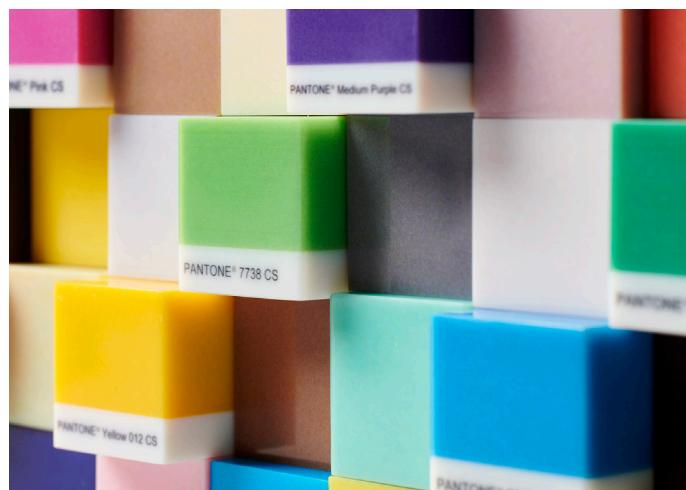
The PolyJet lineup also includes the J55™ 3D printer, created for the office or studio environment. With a small footprint, quiet operation and full color capabilities, the J55 puts the power of PolyJet right at your fingertips.

At the top of the versatility and performance spectrum is the J8 Series™, with the versatility to meet any design need. The J826 Prime and J850 Prime are equipped with over 640,000 colors, texture-mapping and the full complement of rigid materials. For engineering applications that don't require color, the J850 Pro provides all the multi-material and accuracy capabilities of the J850 Prime, at a lower cost. These printers allow users to produce everything from visually stunning, highly realistic prototypes and tools featuring soft-touch parts to visually and tactiley realistic medical models, as well as functional prototypes and final parts.

The Stratasys J8 series and J55 are Pantone Validated™



↑ Glasses frame



↑ Pantone color blocks



Monolithic digital dentures



Auto console in vivid color

These printers provide the capability to produce everything from visually stunning, highly-realistic prototypes and tools featuring soft-touch parts to visually and tactiley realistic medical models.

Agilus console



Anatomical model



Get More Materials and More Potential With PolyJet Printers



	J55™ Prime	J35™ Pro
Maximum Build Size (XYZ)	Round Print Tray with up to 1,174 cm ² (182 in. ²) Print Height: 190 mm* (7.48 in.)*	Round Print Tray with up to 1,174 cm ² (182 in. ²) Print Height: 158 mm* (6.22 in.)*
System Size	651 x 661 x 1511 mm (25.63 x 26.02 x 59.49 in.)	651 x 661 x 774 mm (25.63 x 26.02 x 30.48 in.)
System Weight	228 kg (503 lbs.)	98 kg (216 lbs.)
Layer Thickness	18 microns (0.0007 in.)	18 microns (0.0007 in.)
Accuracy*	Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150 μ ; above 100 mm – ±0.15% of part length.** Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – ±180 μ ; above 100 mm – ±0.2% of part length.**	Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150 μ ; above 100 mm – ±0.15% of part length.** Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – ±180 μ ; above 100 mm – ±0.2% of part length.**
Model Material Options	<ul style="list-style-type: none">Tough: ToughONE™ for excellent impact resistance and flexibilityRigid Transparent: Vero Clear, VeroUltra ClearSRigid Opaque: Vero Black Plus, Vero Pure White, DraftGrey, VeroUltra™ BlackS, VeroUltra™ WhiteSRigid Color: Vivid Yellow, Vivid Cyan, Vivid MagentaHigh Impact: PolyJet 531S™ Reinforcer, RGD515S Digital ABS Plus™ Material ComponentFlexible: Elastico™ Black, Elastico™ ClearBiocompatible: Vero™ ContactClear	<ul style="list-style-type: none">Tough: ToughONE™ for excellent impact resistance and flexibilityRigid and Clear (Vero family): DraftGrey, VeroUltra™ ClearS, VeroUltra™ BlackS, VeroUltra™ WhiteSFlexible: Elastico™ Black, Elastico™ ClearHigh Impact: PolyJet 531S™ Reinforcer, RGD515S Digital ABS Plus™ Material ComponentBio-compatible: Vero™ ContactClear
Digital Material Options	Unlimited number of composite materials including: <ul style="list-style-type: none">ToughONE™ Reinforced for high dimensional stabilityOver 640,000 colorsFull CMFDigital ABS PlusRubberlike blends in a variety of Shore A valuesOvermolding simulationTranslucent color tintsOpaque Colors	Composite materials including: <ul style="list-style-type: none">ToughONE™ Reinforced for high dimensional stabilityDigital ABS PlusRubberlike blends in a variety of Shore A valuesOvermolding simulationMonochromatic CMFTranslucent gray shade tintsOpaque Colors
Support Material	SUP710S™ WSS™150	SUP710S™ WSS™150
Software	GrabCAD Print	GrabCAD Print

* For J35 Pro the printable height is 158 mm (6.22 in.) and the max printable model height is 155 mm (6.1 in.).

For J55 Prime the printable height is 190 mm (7.48 in.) and the max printable model height is 187 mm (7.36 in.).

** Measured when ambient temperature is 23 °C and relative humidity is 50%.



J8 Series	J826 Prime
Maximum Build Size (XYZ)	255 x 252 x 200 mm (10 x 9.9 x 7.9 in.)
System Size	820 x 1310 x 665 mm (32.28 x 51.57 x 26.18 in.) Material Cabinet: 656 x 1119 x 637 (25.8 x 44 x 25.1)
System Weight	234 kg (516 lbs.) Material Cabinet: 153 kg (337 lbs.)
Layer Thickness	Horizontal build layers range between 14 microns – 27 microns (.00055 in.– .001 in.) depending on the print mode.
Resolution	X Printing Resolution: 2400 DPI (HQ mode: 1200 DPI) X Slicing Resolution: 600 DPI Y Printing Resolution: 300 DPI
Accuracy*	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – $\pm 100\mu$; above 100 mm – $\pm 200\mu$.
Model Material Options	<ul style="list-style-type: none"> Tough: ToughONE™ for excellent impact resistance and flexibility Rigid Opaque: Vero family including natural and color shades and VeroUltra opaque materials in black and white. Rigid Transparent: Vero Vivid family that includes VeroCyanV, VeroMagentaV, VeroYellowV Rubberlike: Agilus family of flexible materials Transparent: VeroClear and VeroUltraClear Bio-compatible: Vero ContactClear DraftGrey
Digital Material Options	Unlimited number of composite materials including: <ul style="list-style-type: none"> ToughONE™ Reinforced for high dimensional stability Over 640,000 colors Digital ABS Plus and Digital ABS2 Plus in ivory Rubberlike blends in a variety of Shore A values Translucent color tints Opaque Colors
Support Material	SUP705 (water jet removable) SUP705B SUP706B (soluble)
Software	GrabCAD Print

* Varies depending on part geometry, size, orientation, material and post-processing method.



J8 Series	J850 Prime	J850 Pro
Maximum Build Size (XYZ)	490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)	490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)
System Size	1,400 x 1,260 x 1,100 mm (55.1 x 49.6 x 43.3 in.) Material Cabinet: 656 x 1119 x 637 (25.8 x 44 x 25.1)	1,400 x 1,260 x 1,100 mm (55.1 x 49.6 x 43.3 in.) Material Cabinet: 656 x 1119 x 637 (25.8 x 44 x 25.1)
System Weight	430 kg (948 lbs) Material Cabinet: 152 kg (335 lbs)	430 kg (948 lbs) Material Cabinet: 152 kg (335 lbs)
Layer Thickness	Horizontal build layers range between 14 microns – 27 microns (.00055 in. – .001 in.) depending on the print mode and 55 microns (.002 in.) for super high speed printing mode.	Horizontal build layers range between 14 microns – 27 microns (.00055 in. – .001 in.) depending on the print mode and 55 microns (.002 in.) for super high speed printing mode.
Resolution	X Printing Resolution: 2400 DPI (HQ mode: 1200 DPI) X Slicing Resolution: 600 DPI Y Printing Resolution: 300 DPI	X Printing Resolution: 2400 DPI (HQ mode: 1200 DPI) X Slicing Resolution: 600 DPI Y Printing Resolution: 300 DPI
Accuracy*	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – $\pm 100\mu$; above 100 mm – $\pm 200\mu$ or $\pm 0.06\%$ of part length, whichever is greater.	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – $\pm 100\mu$; above 100 mm – $\pm 200\mu$ or $\pm 0.06\%$ of part length, whichever is greater.
Model Material Options	<ul style="list-style-type: none"> Tough: ToughONE™ for excellent impact resistance and flexibility Rigid Opaque: Vero family including natural and color shades and VeroUltra opaque materials in black and white. Rigid Transparent: Vero Vivid family that includes VeroCyanV, VeroMagentaV, VeroYellowV Rubberlike: Agilus family of flexible materials Transparent: VeroClear and VeroUltraClear Bio-compatible: Vero ContactClear DraftGrey 	<ul style="list-style-type: none"> Tough: ToughONE™ for excellent impact resistance and flexibility Rigid Opaque: Vero and VeroUltra families of Opaque materials in black and white Rubberlike: Agilus family of flexible materials Transparent: VeroClear and VeroUltraClear Bio-compatible: Vero ContactClear DraftGrey
Digital Material Options	Unlimited number of composite materials including: <ul style="list-style-type: none"> ToughONE™ Reinforced for high dimensional stability Over 640,000 colors Digital ABS Plus and Digital ABS2 Plus in ivory Rubberlike blends in a variety of Shore A values Translucent color tints Opaque Colors 	Composite materials including: <ul style="list-style-type: none"> ToughONE™ Reinforced for high dimensional stability Digital ABS Plus and Digital ABS2 Plus in ivory Rubberlike blends in a variety of Shore A values Translucent shade tints Opaque Colors
Support Material	SUP705 (water jet removable) SUP705B SUP706B (soluble)	SUP705 (water jet removable) SUP705B SUP706B (soluble)
Software	GrabCAD Print	GrabCAD Print

* Varies depending on part geometry, size, orientation, material and post-processing method.



Stratasys J5 MediJet

The all-in-one medical printer



The Stratasys J5 MediJet™ is setting a new standard for medical modeling. With multiple materials and multicolor capabilities, academic medical centers, hospitals and medical device companies can create brilliantly vivid anatomical models, and drilling and cutting guides* that are sterilizable and biocompatible. Service multiple departments and create more medical models with less handling - all within a small footprint. Print pre-surgical planning models, training and education models, surgical guides* and medical device development models with a certified system - all on one platform.

*with approved 3rd party 510k cleared segmentation software

Product Specifications	
Model Materials	<p>Biocompatible materials:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Biocompatible Rigid Transparent (MED610) <input type="checkbox"/> Biocompatible Opaque (MED615RGD™ IV) <input type="checkbox"/> Biocompatible Digital ABS Plus™ (MED531 and MED515+) <input type="checkbox"/> Rubber like: <input type="checkbox"/> Elastico Clear (FLX934) <p>Rigid Transparent Colors:</p> <ul style="list-style-type: none"> <input type="checkbox"/> VeroCyan™V <input type="checkbox"/> VeroMagenta™V <input type="checkbox"/> VeroYellow™V <input type="checkbox"/> VeroUltra™ClearS <input type="checkbox"/> VeroBlackPlus™ <input type="checkbox"/> DraftWhite (MED837)
Supported Sterilization Processes	Steam (4 minutes at 132 °C), Gamma (25 – 50 kGy), EtO (specifications available upon request)
Digital Model Materials	Unlimited number of composite materials including over 500,000 colors
Support Materials	SUP710™ (Water Jet removable), WSS™150
Build Tray	Printing area: 1,174cm ² Max Part Size: Up to 140 x 200 x 190mm (5.51 x 7.87 x 7.48 in.)
Layer Thickness	Horizontal build layers down to 18 microns (0.0007 in.)
Accuracy	Deviation from STL dimensions with rigid materials, based on size: under 100 mm – $\pm 150\mu$; above 100 mm – $\pm 0.15\%$ of part length.* * true for 67% (1 sigma) models printed for future information can be found in the spec sheet
Network Connectivity	LAN – TCP/IP
System Size and Weight	651 x 661 x 1511mm (25.63 x 26.02 x 59.49 in.); 228 kg (503 lbs.)
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30 – 70% (non-condensing)
Power Requirements	100 – 240 VAC, 50 – 60 HZ, 10A, 1 phase
Regulatory Compliance	CE, FCC, EAC
Software	GrabCAD Print
Build Modes	High Quality Speed (HQS) – 18.75 μ m



J5 Digital Anatomy™ 3D Printer

Anatomical Realism Within Your Reach

Introducing the J5 Digital Anatomy 3D Printer, designed with a small footprint and high performance, featuring unique materials and software to create biomechanically accurate anatomical model—now within reach.

This multi-color, multi-material platform constructs models that replicate the look, feel, and responsiveness of human anatomy. It enables the creation of realistic, cost-effective educational resources, enhances product development, and expedites time to market, all while ensuring safe operation with biocompatible materials and certified platforms.

Ideal for point-of-care and academic medical centers seeking to enhance surgical planning and training, as well as for medical device companies aiming to accelerate innovation.



Product Specifications

Model Materials	<p>Biocompatible materials:</p> <ul style="list-style-type: none">□ Biocompatible Rigid Transparent (MED610)■ Biocompatible Opaque (MED615RGD™ IV)□ Biocompatible Digital ABS Plus™ (MED531 and MED515+)Rubber like:□ Elastico®Clear (FLX934)■ Elastico®Black (FLX984) <p>Rigid Transparent Colors:</p> <ul style="list-style-type: none">■ VeroCyan™V (RGD845)■ VeroMagenta™V (RGD852)■ VeroYellow™V (RGD838)□ VeroUltra™ClearS (RGD821)■ VeroUltra™Black (RGD864)□ VeroUltra™White (RGD824)■ VeroBlackPlus™ (RGD875)	<p>Digital Anatomy™ Materials:</p> <ul style="list-style-type: none">■ TissueMatrix™ (MED310)■ GelMatrix™ (FLG111)■ BoneMatrix™ (RGD516)□ RadioMatrix™ (MED410)
Support Materials	<ul style="list-style-type: none">• SUP710S™ (WaterJet removable)• WSS™150 (Water soluble, not compatible with the Digital Anatomy materials)	
Supported Sterilization	<ul style="list-style-type: none">• Steam (4 minutes at 132 °C)• Gamma (25 – 50 kGy)	
Digital Model Materials	<ul style="list-style-type: none">• Composite materials including over 500,000 colors• Hundreds of presets available to mimic different anatomies with Digital Anatomy materials	
Build Tray	<ul style="list-style-type: none">• Printing area: 1,174cm²• Max Part Size: Up to 140 x 200 x 190mm (5.51 x 7.87 x 7.48 in.)	
Layer Thickness	Horizontal build layers down to 18 microns (0.0007 in.)	
Accuracy	Deviation from STL dimensions with rigid materials, based on size: under 100 mm: $\pm 150\mu$; above 100 mm: $\pm 0.15\%$ of part length.*	
Network Connectivity	LAN – TCP/IP	
System Size and Weight	651 x 661 x 1511mm (25.63 x 26.02 x 59.49 in.); 228 kg (503 lbs.)	
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30 – 70% (non-condensing)	
Power Requirements	100 – 240 VAC, 50 – 60 HZ, 10A, 1 phase	
Regulatory Compliance	CE, FCC, EAC	
Software	GrabCAD Print	
Build Modes	<ul style="list-style-type: none">• High Quality Speed (HQS) Compatible with Digital Anatomy materials.• Long Print (LP)• High Speed (HS)	

*Accuracy spec doesn't include Digital Anatomy materials; true for 67% (1 sigma) models printed for future information can be found in the spec sheet.



J850™ Digital Anatomy™

Model Materials	Vero family of opaque materials including neutral shades and vibrant VeroVivid™ colors Agilus30, TangoPlus™ and TangoBlackPlus™ flexible materials VeroClear, VeroUltra™ Clear transparent materials TissueMatrix, BoneMatrix, GelMatrix Biocompatible Clear
Digital Materials	Unlimited number of composite materials, including: Over 500,000 colors Digital ABS Plus and Digital ABS2 Plus in ivory and green Rubber-like materials in a variety of Shore A values Ultra-soft rubber-like material with a Shore 00 value Translucent color tints User-developed digital materials with GrabCAD Voxel Print™
Support Materials	SUP705 (waterjet removable) SUP706B (soluble) GelMatrix (waterjet removable)
Build size	490 x 390 x 200 mm (19.3 x 15.35 x 7.9 in.)
Layer Thickness	Horizontal build layers down to 14 microns (0.00055 in.)
Workstation Compatibility	Windows 7 and 8.1
Network Connectivity	LAN – TCP/IP
System Size and Weight	1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.)
Material Cabinet	670 x 1170 x 640 mm (26.4 x 46.1 x 25.2 in.); 152 kg (335 lbs.)
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30 – 70% (non-condensing)
Power Requirements	100 – 120 VAC, 50 – 60 Hz, 13.5 A, 1 phase 220 – 240 VAC, 50 – 60 Hz, 7 A, 1 phase
Regulatory Compliance	CE, FCC, EAC
Software	GrabCAD Print Digital Anatomy software. Optional add-on GrabCAD Voxel Print and/or Digital Anatomy Creator software
Build Modes	High Quality (HQ) – 7 different materials / 14µm layers High Mix (HM) – 7 materials / 27µm High Speed (HS) – 3 materials / 27µm, x2 speed Super High Speed(SHS)- 1 material / 54 µm, x4 speed
Accuracy	Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm: ±100µ; above100 mm: ±200µ or ± 0.06% of part length, whichever is greater. Please refer to material-specific spec sheets for accuracy estimates.



Countless Combinations. Limitless Possibilities.

PolyJet 3D printers use photopolymers that feature properties ranging from rubberlike to transparent and characteristics like high toughness and heat resistance.

Digital Materials expand the possibilities by blending two or more base resins to create thousands of material combinations. Achieve full-color capabilities, translucencies, Shore A values and other properties for maximum product realism.

Material	Highlights
ToughONE	<ul style="list-style-type: none">Very high impact strength (up to 110 J/m)Simulates HDPE thermoplastic. (If cured with ProLight, can also simulate PP and PBT.)Used for pipes and fittings, detergent bottles, food containers, monobloc chairs, furniture, electrical components, and automotive parts
Digital Materials	<ul style="list-style-type: none">Wide range of flexibility, from Shore A 27 to Shore A 95Rigid materials ranging from simulated standard plastics to the toughness and temperature resistance of Digital ABS Plus™ Material ComponentVibrant colors in rigid or flexible materials, with over 640,000 color options on the Stratasys J850Available on PolyJet multi-jetting 3D printersOpaque Colors are available for J8 Series, J35 and J55 printers
Digital ABS Plus	<ul style="list-style-type: none">Simulates ABS plastics by combining strength with high temperature resistanceDigital ABS Plus™ Material Component offers enhanced dimensional stability for thin-walled partsIdeal for functional prototypes, snap-fit parts for high or low temperature usage, electrical parts, castings, mobile telephone casings and engine parts and covers
High Temperature	<ul style="list-style-type: none">Exceptional dimensional stability for thermal functional testingCombine with PolyJet rubberlike materials to produce varying Shore A values, gray shades and high temperature parts with overmoldingIdeal for form, fit and thermal functional testing, high-definition models requiring excellent surface quality, exhibition models that endure strong lighting conditions, taps, pipes and household appliances, hot air and hot water testing
Transparent	<ul style="list-style-type: none">Print clear and tinted parts and prototypes with VeroClear, VeroUltraClear, VeroUltraClearS, VeroVivid family, and RGD720Combine with color materials for stunning transparent shadesIdeal for form and fit testing of see-through parts, like glass, consumer products, eyewear, light covers and cases, visualization of liquid flow, medical applications, artistic and exhibition modeling
Rigid Opaque	<ul style="list-style-type: none">Brilliant color options for unprecedented design freedomCombine with rubberlike materials for overmolding, soft touch handles and moreIdeal for fit and form testing, moving and assembled parts, sales, marketing and exhibition models, assembly of electronic components and silicone molding
Simulated Polypropylene	<ul style="list-style-type: none">Simulates the appearance and functionality of polypropyleneIdeal for prototyping containers and packaging, flexible snap-fit applications and living hinges, toys, battery cases, laboratory equipment, loudspeakers and automotive components
Rubberlike	<ul style="list-style-type: none">Offers various levels of elastomer characteristicsCombine with rigid materials for a variety of Shore A values, from Shore A 27 to Shore A 95Ideal for rubber surrounds and overmolding, soft-touch coatings and nonslip surfaces, knobs, grips, pulls, handles, gaskets, seals, hoses, footwear, and exhibition and communication models
Biocompatible	<ul style="list-style-type: none">Features high dimensional stability and colorless transparencyHas five medical approvals including cytotoxicity, genotoxicity, delayed type hypersensitivity, irritation and USP plastic Class VIIdeal for applications requiring prolonged skin contact of more than 30 days and short-term mucosal-membrane contact of up to 24 hours



PolyJet Materials in Detail

	Tough	Digital ABS Plus	High Temperature	
Materials	ToughONE™ Pure	ToughONE™ Reinforced (with RGD531S)	Digital ABS Plus™ Material Component, Ivory, made of RGD515S & RGD531S	
Tensile Strength	48 – 53 MPa (7,000 – 7,700 psi)	60 – 65 MPa (8,700 – 9,400 psi)	55 – 60 MPa (8,000 – 8,700 psi)	70 – 80 MPa (10,000 – 11,500 psi)
Elongation at Break	45 – 55%	20 – 30%	25 – 40%	10 – 15%
Modulus of Elasticity	–	–	2,600 – 3,000 MPa (375,000 – 435,000 psi)	3,200 – 3,500 MPa (465,000 – 510,000 psi)
Flexural Strength	77 – 87 MPa (11,200 – 12,600 psi)	83 – 91 MPa (12,000 – 13,200 psi)	65 – 75 MPa (9,500 – 11,000 psi)	110 – 130 MPa (16,000 – 19,000 psi)
Flexural Modulus	2,100 – 2,400 MPa (305,000 – 348,000 psi)	2,200 – 2,400 MPa (319,000 – 348,000 psi)	1,700 – 2,200 MPa (245,000 – 320,000 psi)	3,100 – 3,500 MPa (450,000 – 510,000 psi)
HDT, °C @ 0.45 MPa	47 – 50 °C (116.6 – 122 °F)	59 – 62 °C (138.2 – 143.6 °F)	92 – 95 °C (198 – 203 °F)	–
HDT, °C @ 1.82 MPa	–	–	51 – 55 °C (124 – 131 °F)	55 – 57 °C (131 – 135 °F)
Izod Notched Impact	40 – 55 J/m (0.75 – 1.03 ft lb/in.)	90 – 110 J/m (1.7 – 2.1 ft lb/in.)	90 – 110 J/m (1.69 – 2.06 ft lb/in.)	14 – 16 J/m (0.262 – 0.300 ft lb/in.)
Water Absorption	–	–	–	1.2 – 1.4%
Tg	74 °C (165.2 °F)	79 °C (174 °F)	47 – 53 °C (117 – 127 °F)	62 – 65 °C (144 – 149 °F)
Shore Hardness	81 – 83 Scale D	83 – 86 Scale D	85 – 87 Scale D	87 – 88 Scale D
Rockwell Hardness	–	–	67 – 69 Scale M	78 – 83 Scale M
Polymerized Density	–	–	1.17 – 1.18 g/cm³	1.17 – 1.18 g/cm³
Ash Content	–	–	–	0.38 – 0.42%



Transparent				
Materials	RGD720, VeroMagentaV (RGD852)*, VeroYellowV (RGD838)*, VeroCyanV (RGD845)*	VeroClear (RGD810)	VeroUltraClear (RGC820)	VeroUltraClearS (RGD821)
Tensile Strength	50 – 65 MPa (7,250 – 9,450 psi)	50 – 65 MPa (7,250 – 9,450 psi)	39 – 43 MPa (5,650 – 6,240 psi)	26 – 37 MPa (3,770 – 5,370 psi)
Elongation at Break	15 – 25%	10 – 25%	20 – 35%	45 – 60%
Modulus of Elasticity	2,000 – 3,000 MPa (290,000 – 435,000 psi)	2,000 – 3,000 MPa (290,000 – 435,000 psi)	1,400 – 2,100 MPa (203,000 – 304,600 psi)	1,500 – 2,000 MPa (217,000 – 290,000 psi)
Flexural Strength	80 – 110 MPa (12,000 – 16,000 psi)	75 – 110 MPa (11,000 – 16,000 psi)	58 – 72 MPa (8,400 – 10,400 psi)	48 – 60 MPa (6,700 – 8,700 psi)
Flexural Modulus	2,700 – 3,300 MPa (390,000 – 480,000 psi)	2,200 – 3,200 MPa (320,000 – 465,000 psi)	1,900 – 2,300 MPa (275,000 – 333,000 psi)	1,300 – 1,800 MPa (189,000 – 261,000 psi)
HDT @ 1.82 MPa	45 – 50 °C (113 – 122 °F)	45 – 50 °C (113 – 122 °F)	Before photobleaching: 47 – 49 °C (117 – 120 °F) After photobleaching: 48 – 52 °C (118 – 126 °F)	45 – 48 °C (113 – 118 °F)
Izod Notched Impact	20 – 30 J/m (0.375 – 0.562 ft lb/inch)	20 – 30 J/m (0.375 – 0.562 ft lb/inch)	20 – 30 J/m (0.375 – 0.562 ft lb/inch)	20 – 30 J/m (0.375 – 0.562 ft lb/inch)
Water Absorption	1.5 – 2.2%	1.1 – 1.5%	1.25 – 1.4%	1.2 – 1.4%
Tg	48 – 50 °C (118 – 122 °F)	52 – 54 °C (126 – 129 °F)	52 – 54 °C (126 – 129 °F)	47 – 48 °C (117 – 118 °F)
Shore Hardness	83 – 86 Scale D	83 – 86 Scale D	80 – 85 Scale D	75 – 80 Scale D
Rockwell Hardness	73 – 76 Scale M	73 – 76 Scale M	70 – 75 Scale M	60 – 70 Scale M
Polymerized Density	1.18 – 1.19 g/cm ³	1.18 – 1.19 g/cm ³	1.18 – 1.19 g/cm ³	1.17 – 1.18 g/cm ²
Ash Content	0.01 – 0.02%	0.02 – 0.06%	0.02 – 0.06%	0.02 – 0.06%

* Tinted Transparent



Rigid Opaque (Vero Family)			Rigid Opaque (VeroUltra Family)		
Materials	Vero PureWhite (RGD837), VeroGray (RGD850), VeroBlackPlus (RGD875), VeroWhitePlus (RGD835), VeroYellow (RGD836), VeroCyan (RGD843), VeroMagenta (RGD851), VeroMagentaV (RGD852)*, VeroYellowV (RGD838)*, VeroCyanV (RGD845)*	VeroBlue (RGD840)	DraftGrey	VeroUltraWhite (RGD825) VeroUltraBlack (RGD865)	VeroUltraWhiteS (RGD824) VeroUltraBlackS (RGD864)
Tensile Strength	50 – 65 MPa (7,250 – 9,450 psi)	50 – 60 MPa (7,250 – 8,700 psi)	50 – 65 MPa (7,250 – 9,450 psi)	50 – 65 (7250 – 9430 psi)	50 – 65 (7250 – 9430 psi)
Elongation at Break	10 – 25%	15 – 25%	10 – 25%	5 – 20 %	5 – 20 %
Modulus of Elasticity	2,000 – 3,000 MPa (290,000 – 435,000 psi)	2,000 – 3,000 MPa (290,000 – 435,000 psi)	2,000 – 3,000 MPa (290,000 – 435,000 psi)	2,000 – 3,000 MPa (290,000 – 435,000 psi)	2,000 – 3,000 MPa (290,000 – 435,000 psi)
Flexural Strength	75 – 110 MPa (11,000 – 16,000 psi)	60 – 70 MPa (8,700 – 10,200 psi)	75 – 110 MPa (11,000 – 16,000 psi)	65 – 85 (9,400 – 12,300 psi)	65 – 85 (9,400 – 12,300 psi)
Flexural Modulus	2,200 – 3,200 MPa (320,000 – 465,000 psi)	1,900 – 2,500 MPa (265,000 – 365,000 psi)	2,200 – 3,200 MPa (320,000 – 465,000 psi)	2,000 – 2,800 (290,000 – 406,100 psi)	2,000 – 2,800 (290,000 – 406,100 psi)
HDT @ 0.45 MPa	–	–	–	48 – 52 °C (118 – 126 °F)	48 – 52 °C (118 – 126 °F)
HDT @ 1.82 MPa	45 – 50 °C (113 – 122 °F)	45 – 50 °C (113 – 122 °F)	45 – 50 °C (113 – 122 °F)	44 – 47 (111 – 117 °F)	44 – 47 °C (111 – 117 °F)
Izod Notched Impact	20 – 30 J/m (0.375 – 0.562 ft lb/inch)	20 – 30 J/m (0.375 – 0.562 ft lb/inch)	20 – 30 J/m (0.375 – 0.562 ft-lb/inch)	20 – 30 J/m (0.375 – 0.562 ft-lb/in.)	20 – 30 J/m (0.375 – 0.562 ft-lb/in.)
Water Absorption	1.1 – 1.5%	1.5 – 2.2%	1.1 – 1.5%	1.1 – 1.4%	1.1 – 1.4%
T_g	52 – 54 °C (126 – 129 °F)	48 – 50 °C (118 – 122 °F)	52 – 54 °C (126 – 129 °F)	54 – 56 °C (124 – 133 °F)	49 – 56 °C (120 – 133 °F)
Shore Hardness	83 – 86 Scale D	83 – 86 Scale D	83 – 86 Scale D	83 – 86	83 – 86
Rockwell Hardness	73 – 76 Scale M	73 – 76 Scale M	73 – 76 Scale M	–	–
Polymerized Density	1.17 – 1.18 g/cm ³	1.18 – 1.19 g/cm ³	1.17 – 1.18 g/cm ³	1.19 – 1.23	1.19 – 1.23
Ash Content	0.23 – 0.26% (VeroGray, VeroWhitePlus)			–	
	0.01 – 0.02% (VeroBlackPlus, VeroMagentaV, VeroYellowV)	0.21 – 0.22%	0.23 – 0.26%	–	–

* Opaque only when printed with core



Rubberlike						
Materials	TangoBlack (FLX973)	TangoGray (FLX950)	TangoBlackPlus (FLX980) TangoPlus (FLX930)	Agilus30 Clear (FLX935) Agilus30 Black (FLX 985)	Agilus30 White (FLX945)	Agilus30 Cyan (FLX941) Agilus30 Magenta (FLX951) Agilus30 Yellow (FLX931)
Tensile Strength	1.8 – 2.4 MPa (115 – 350 psi)	3.0 – 5.0 MPa (435 – 725 psi)	0.8 – 1.5 MPa (115 – 220 psi)	2.4 – 3.1 MPa (348 – 450 psi)	2.1 – 2.6 MPa (305 – 377 psi)	2.2 – 2.6 MPa (319 – 377 psi)
Elongation at Break	45 – 55%	45 – 55%	170 – 220%	220 – 240%	185 – 230%	315 – 335%
Shore Hardness	60 – 62 Scale A	73 – 77 Scale A	26 – 28 Scale A	30 – 35 Scale A	30 – 40 Scale A	28 – 33 Scale A
Polymerized Density	1.14 – 1.15 g/cm ³	1.16 – 1.17 g/cm ³	1.12 – 1.13 g/cm ³	1.14 – 1.15 g/cm ³	1.14 – 1.15 g/cm ³	1.14 – 1.15 g/cm ³



	VeroFlex, VeroFlexVivid	Simulated Polypropylene	Elastico	VeroContactClear
Materials	VeroFlex Black (RGD895), VeroFlex Clear (RGD896), VeroFlex White (RGD894), VeroFlex Cyan (RGD891), VeroFlex Magenta (RGD892), VeroFlex Yellow (RGD893), VeroFlex CyanV (RGD898), VeroFlex MagentaV (RGD899), VeroFlexYellowV (RGD890)	Durus White (RGD430)	Black/Clear	–
Tensile Strength	43 – 64 MPa (6,237 – 9,282 psi)	20 – 30 MPa (2,900 – 4,350 psi)	3 - 5 Mpa (435 -725 psi)	J8 Series: 50 – 65 MPa (7,252 – 9,427 psi) J55/35: 40 – 55 MPa (5,800 – 8,000 psi)
Elongation at Break	8 – 20%	40 – 50%	360 - 400%	J8 Series: 10 – 25% J55/35: 5 – 20%
Modulus of Elasticity	950 – 1600 MPa (137,786 – 232,060 psi)	1,000 – 1,200 MPa (145,000 – 175,000 psi)	–	J8 Series: 2,000 – 3,000 MPa (290.1 – 435.1 ksi) J55/35: 2,200 – 3,000 MPa (320,000 – 435,000 psi)
Flexural Strength	48 – 88 MPa (6,962 – 12,763 psi)	30 – 40 MPa (4,350 – 5,800 psi)	–	J8 Series: 75 – 110 Mpa (10,878 – 15,954 psi) J55/35: 70 – 85 MPa (10,000 – 16,000 psi)
Flexural Modulus	1,600 – 2,300 MPa (232,061 – 333,587 psi)	1,200 – 1,600 MPa (175,000 – 230,000 psi)	–	J8 Series: 2,200 – 3,200 Mpa (319.1 – 464.1 ksi) J55/35: 2,000 – 2,500 MPa (290,000 – 365,000 psi)
Shore Hardness	75 – 85 Scale D	74 – 78 Scale D	45 – 50 Scale A	83 – 86 D
HDT @ 0.45 MPa	42 – 50 °C (108 – 122 °F)		–	45 – 50 °C (113 – 122 °F)
HDT @ 1.82 MPa	–	32 – 34 °C (90 – 93 °F)	–	45 – 50 °C (113 – 122 °F)
Izod Notched Impact	20 – 30 J/m (0.375 – 0.562 lb/in)	40 – 50 J/m (0.749 – 0.937 ft lb/inch)	–	J8 Series: 20 – 30 (0.37 – 0.56 ft-lb/in) J55/35: 20 – 30 J/m (0.375 – 0.562 ft-lb/in)
Water Absorption	–	1.5 – 1.9%	–	1.1 – 1.5%
Tg	–	35 – 37 °C (95 – 99 °F)	–	52 – 54 °C (126 – 129 °F)
Polymerized Density	–	1.15 – 1.17 g/cm ³	1.1 – 1.3 (g/cm ³)	1.17 – 1.18 (g/cm ³) (0.676 – 0.682 oz/in ³)
Ash Content	–	0.10 – 0.12%	–	–
Tensile Tear Resistance	–	–	5 – 7.5 Kg/cm (28 – 42 lb/in)	–
Compressive Set	–	–	0.8 – 1.7 %	–



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