

Stratasys



FDM 3D Printers and Materials.

Reliable. Repeatable. Exceptional.



FDM

Stronger. Faster. Better.

The FDM technology with unmatched versatility and proven performance.



Flexible options. Durable results.

FDM® (fused deposition modeling) 3D printers offer unparalleled versatility to turn your CAD files into durable parts. These parts are tough enough to be used as advanced conceptual models, functional prototypes, manufacturing tools and production parts. Engineers can produce a wide variety of products just by loading different files and materials. No traditional machining process can do that.



Superior materials. Unrivalled repeatability.

FDM technology works with engineering-grade thermoplastics to build strong, long-lasting and dimensionally stable parts with the best accuracy and repeatability of any 3D printing technology. FDM machines make parts with the most commonly used thermoplastics, such as ABS, polycarbonate, a variety of blends, as well as engineered thermoplastics for aerospace, medical, automotive, electronic and other specialty applications. When using 3D printing for validation prototypes and the production of finished goods, using a durable, proven thermoplastic is all the more important, and it may be the only choice for many applications.





Bigger parts. Improved designs.

FDM systems are as versatile and durable as the parts they produce. The most advanced FDM 3D Printers boast the largest build envelopes and material capacities in their class, delivering longer, uninterrupted build times, bigger parts and higher production run quantities than other additive manufacturing systems. Plus, they're true production workhorses, delivering the high throughput, duty cycles and utilization rates that make digital manufacturing not only possible, but practical.



Faster workflow. Efficient processes.

FDM 3D Printers can streamline processes from design through manufacturing, reducing costs and eliminating traditional barriers along the way. With FDM, a designer can create an idea, and test it the same day. Industries can cut lead times and costs, products turn out better, and get to market faster. Breakthrough designs, process innovations, just-in-time manufacturing — whatever you can imagine, FDM can make it happen.

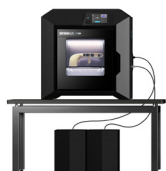


**More
materials.
More
benefits.**

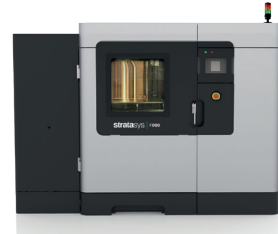


| Material | Highlights |
|--|--|
| Antero™ 800NA (polyetherketoneketone) | <ul style="list-style-type: none"> • High heat and chemical resistance • Low outgassing and high dimensional stability • Excellent strength, toughness and wear-resistant properties |
| Antero 840CN03 (polyetherketoneketone) | <ul style="list-style-type: none"> • Excellent ESD (electrostatic dissipative) properties • High heat and chemical resistance • Low outgassing and high dimensional stability • Excellent strength, toughness and wear-resistant properties |
| ULTEM™ 1010 resin (polyetherimide) | <ul style="list-style-type: none"> • Highest heat resistance, chemical resistance and tensile strength • Outstanding strength and thermal stability |
| ULTEM™ 9085 resin (polyetherimide) | <ul style="list-style-type: none"> • High heat and chemical resistance; highest flexural strength • Ideal for commercial transportation applications such as airplanes, buses, trains and boats • Meets FST (flame, smoke, toxicity) requirements |
| PPSF (polyphenylsulfone) | <ul style="list-style-type: none"> • Mechanically superior material, greatest strength • Ideal for applications in caustic and high heat environments |
| ST-130™ (sacrificial tooling) | <ul style="list-style-type: none"> • Designed specifically for hollow composite parts • Fast, hands-free dissolution time • High heat and autoclave pressure resistance |
| FDM Nylon 6™ (polyamide 6) | <ul style="list-style-type: none"> • Combines strength and toughness superior to other thermoplastics • Produces durable parts with a clean finish and high break resistance |
| FDM Nylon 12™ (polyamide 12) | <ul style="list-style-type: none"> • The toughest nylon in additive manufacturing • Excellent for repetitive snap fits, press fit inserts and resistant applications • Simple, clean process – free of powders |
| FDM Nylon 12CF™ (polyamide 12CF) | <ul style="list-style-type: none"> • Carbon fiber reinforced thermoplastic with excellent structural characteristics • Highest flexural strength • Highest stiffness-to-weight ratio |
| PC (polycarbonate) | <ul style="list-style-type: none"> • Most widely used industrial thermoplastic with superior mechanical properties and heat resistance • Accurate, durable and stable for strong parts, patterns for metal bending and composite work • Great for demanding prototyping needs, tooling and fixtures |
| PC-ISO™ (polycarbonate) | <ul style="list-style-type: none"> • Sterilizable using gamma radiation or ethylene oxide (EtO) sterilization methods • Best fit for applications requiring higher strength and sterilization |
| PC-ABS (polycarbonate - acrylonitrile butadiene styrene) | <ul style="list-style-type: none"> • Superior mechanical properties and heat resistance of PC • Excellent feature definition and surface appeal of ABS • Hands-free support removal with soluble support |
| ASA (acrylonitrile styrene acrylate) | <ul style="list-style-type: none"> • Build UV-stable parts with the best aesthetics of any FDM material • Ideal for production parts for outdoor infrastructure and commercial use, outdoor functional prototyping and automotive parts and accessory prototypes |
| ABS-ESD7™ (acrylonitrile butadiene styrene - static dissipative) | <ul style="list-style-type: none"> • Electrostatic-dissipative with surface resistance 10⁴-10⁹ ohms • Makes great assembly tools for electronic and static-sensitive products • Widely used for functional prototypes of cases, enclosures and packaging |
| ABS-M30™ (acrylonitrile butadiene styrene) | <ul style="list-style-type: none"> • Versatile material: good for form, fit and functional applications • Familiar production material for accurate prototyping |
| ABS-CF10 | <ul style="list-style-type: none"> • Strong, stiff material filled with carbon fiber for jigs, fixtures and other tooling applications • 150% stiffer and 115% stronger than ABS-M30 |
| Diran™ 410MF07 | <ul style="list-style-type: none"> • Good mechanical properties and toughness • Smooth texture with low sliding friction • Best fit for production of jigs, fixtures and manufacturing aids |
| PLA (polylactic acid) | <ul style="list-style-type: none"> • Fast printing • Economical and user-friendly • Ideal for concept models |
| FDM™ TPU 92A (thermoplastic polyurethane) | <ul style="list-style-type: none"> • Elastomer material with Shore A value of 92 • Extremely flexible, durable and resilient • Compatible with soluble support • Accelerates elastomer prototyping without the need for molds |

A printer for every purpose.



| | F120™ | F170™ | F270™ |
|----------------------------|--|--|--|
| Build Envelope | 10 x 10 x 10 in. (254 x 254 x 254 mm) | 10 x 10 x 10 in. (254 x 254 x 254 mm) | 12 x 10 x 12 in. (305 x 254 x 305 mm) |
| System Size/Weight | 35 x 35 x 29 in. (889 x 889 x 721 mm), 275 lbs (124 kg) | 64 x 34 x 28 in. (1626 x 864 x 711 mm) 500 lbs (227 kg) with consumables | 64 x 34 x 28 in. (1626 x 864 x 711 mm) 500 lbs (227 kg) with consumables |
| Material Options | ABS-M30, ASA | ABS-M30, ASA, PLA, FDM TPU 92A, ABS-CF10 | ABS-M30, ASA, PLA, FDM TPU 92A, ABS-CF10 |
| Throughput Comparison | 1.5 x (standard mode) 3 x (fast-draft mode) | 1.5 x (standard mode) 3 x (fast-draft mode) | 1.5 x (standard mode) 3 x (fast-draft mode) |
| Part Accuracy ¹ | Parts are produced within an accuracy of +/- .008 in. (.200 mm), or +/- .002 in./in. (.002 mm/mm), whichever is greater. | Parts are produced within an accuracy of +/- .008 in. (.200 mm), or +/- .002 in./in. (.002 mm/mm), whichever is greater. | Parts are produced within an accuracy of +/- .008 in. (.200 mm), or +/- .002 in./in. (.002 mm/mm), whichever is greater. |
| Software | GrabCAD Print™: GrabCAD Print simplifies the traditional 3D print preparation workflow and provides intelligence around printer usage so your team can get quality prints, faster. Print directly from CAD, organize print queues, monitor material levels and work with detailed views of your model. The tray and slice preview feature supports adjustments before going to print. | | |



| | F370™ | Fortus 380mc™ ³ | Fortus 450mc™ | F900™ |
|----------------------------|---|---|--|---|
| Build Envelope | 14 x 10 x 14 in. (355 x 254 x 355 mm) | 14 x 12 x 12 in. (355 x 305 x 305 mm) | 16 x 14 x 16 in. (406 x 355 x 406 mm) | 36 x 24 x 36 in. (914 x 610 x 914 mm) |
| System Size/Weight | 64 x 34 x 28 in. (1,626 x 864 x 711 mm) 500 lbs (227 kg) with consumables | 50 x 35.5 x 76.5 in. (1,270 x 901.7 x 1,984 mm) 1,325 lbs (601 kg) | 50 x 35.5 x 76.5 in. (1,270 x 901.7 x 1,984 mm) 1,325 lbs (601 kg) | 109.1 x 66.3 x 79.8 in. (2,772 x 1,683 x 2,027 mm) 6,325 lbs (2,869 kg) |
| Material Options | ABS-M30, ABS-CF10, ASA, PC-ABS, PLA, Diran 410MF07, ABS-ESD7, FDM TPU-92A | ABS-M30, ABS-M30i, ABS-ESD7, ASA, PC-ISO, PC, PC-ABS, FDM Nylon 12 Fortus 380mc Carbon Fiber Edition: ³ ASA and FDM Nylon 12CF | ABS-M30, ABS-M30i, ABS-ESD7, Antero 800NA, Antero 840CN03, ASA, PC-ISO, PC, PC-ABS, FDM Nylon 12, FDM Nylon 12CF, ST-130, ULTEM™ 9085 resin, ULTEM™ 1010 resin | ABS-M30, ABS-M30i, ABS-ESD7, Antero 800NA, Antero 840CN03, ASA, PC-ISO, PC, PC-ABS, PPSF, FDM Nylon 12, FDM Nylon 12CF, FDM Nylon 6, ST-130, ULTEM™ 9085 resin, ULTEM™ 1010 resin |
| Throughput Comparison | 1.5 x (standard mode) 3 x (fast-draft mode) | 2.0 x | 2.0 x | 2.1 x |
| Part Accuracy ¹ | Parts are produced within an accuracy of: +/- .008 in. (.200 mm), or +/- .002 in./in. (.002 mm/mm), whichever is greater. | Parts are produced within an accuracy of ± .005 in. (.127 mm) or ± .0015 in./in. (.0015 mm/mm), whichever is greater. | Parts are produced within an accuracy of ± .005 in. (.127 mm) or ± .0015 in./in. (.0015 mm/mm), whichever is greater. | Parts are produced within an accuracy of: ± .0035 in. (.09 mm) or ± .0015 in./in. (.0015 mm/mm), whichever is greater. ² |
| Software | <p>Insight™: Insight software prepares 3D digital part files (output as an STL) to be manufactured on an FDM 3D printer by automatically slicing and generating support structures and material extrusion paths in one push of a button. If necessary, users can override Insight's defaults to manually edit parameters that control the look, strength and precision of parts as well as the time, throughput, expense and efficiency of the FDM process.</p> <p>Control Center™: Control Center is the software that communicates between the user workstation(s) and the FDM system(s), managing jobs and monitoring the production status of FDM systems. This software application provides the control to maximize efficiency, throughput and utilization while minimizing response time. Control Center is included with Insight software.</p> <p>GrabCAD Print: GrabCAD Print simplifies the traditional 3D print preparation workflow and provides intelligence around printer usage so your team can get quality prints, faster. Print directly from CAD, organize print queues, monitor material levels and work with detailed views of your model. The tray and slice preview feature supports adjustments before going to print.</p> | | | |

¹ Accuracy is geometry-dependent. Achievable accuracy specification derived from statistical data at 95% dimensional yield. Z part accuracy includes an additional tolerance of -0.000/+slice height.

² See Fortus 900mc accuracy study white paper for more information.

³ Fortus 380mc Carbon Fiber Edition runs only ASA and FDM Nylon 12CF, but is identical to the Fortus 380mc otherwise.

Premium materials. Premium performance.

FDM 3D printers use a variety of engineering-grade thermoplastics to manufacture functional parts direct from digital data. FDM thermoplastics are environmentally stable, so overall shape and part accuracy don't change with ambient conditions over time, unlike the powders in competitive processes. Materials are easy to change on FDM 3D printers, with no mess or complicated processes. When combined with FDM 3D printers, FDM thermoplastics give you high-quality thermoplastic parts that are ideal for concept modeling, functional prototyping, manufacturing tools or production parts.

| | Antero 800NA ¹² | Antero 840CN03 ¹² | ULTEM™ 1010 resin ¹² | ULTEM™ 9085 resin ¹² | PPSF |
|--|--|--|---|---|---|
| System Availability | Fortus 450mc F900 | Fortus 450mc F900 | Fortus 400mc Fortus 450mc Fortus 900mc/F900 | Fortus 400mc Fortus 450mc Fortus 900mc/F900 | Fortus 400mc Fortus 900mc/F900 |
| Layer Thickness | 0.010 inch (0.254 mm) | 0.010 inch (0.254 mm) | 0.010 inch (0.254 mm) ⁹ 0.013 inch (0.330 mm) 0.020 inch (0.508 mm) | 0.010 inch (0.254 mm) ⁸ 0.013 inch (0.330 mm) | 0.010 inch (0.254 mm) ³ 0.013 inch (0.330 mm) |
| Support Structure | SUP8000B™ breakaway | SUP8000B breakaway | ULTEM™ support breakaway | ULTEM™ 9085 resin support breakaway | PPSF support breakaway |
| Available Colors | ■ Natural | ■ Natural | ■ Natural | ■ Natural ■ Black | ■ Natural |
| Tensile Strength (peak) ² | XZ: 13,100 psi (90.6 MPa) ZX: 8,270 psi (57.0 MPa) | XZ: 13,600 psi (93.9 MPa) ZX: 7,320 psi (50.5 MPa) | XZ: 11,500 psi (79.2 MPa) ZX: 4,080 psi (28.2 MPa) | XZ: 10,000 psi (69.2 MPa) ZX: 5,710 psi (39.4 MPa) | XZ: 8,000 psi (55 MPa) |
| Tensile Elongation @ break ² | XZ: 6.1% ZX: 1.8 % | XZ: 6.5% ZX: 1.8% | XZ: 4.0% ZX: 1.1% | XZ: 5.4% ZX: 1.9% | XZ: 3.0% |
| Flexural Strength | XZ: 19,300 psi (133 MPa) ZX: 12,700 psi (87.9 MPa) | XZ: 19,600 psi (380 MPa) ZX: 9,760 psi (67.3 MPa) | XZ: 18,600 psi (128 MPa) ZX: 11,800 (81.6 MPa) | XZ: 15,000 psi (104 MPa) ZX: 10,600 psi (73.1 MPa) | XZ: 15,900 psi (110 MPa) |
| IZOD Impact, Notched | XZ: 0.828 ft-lb/in (44.2 J/m) ZX: 0.612 ft-lb/in (32.7 J/m) | XZ: 0.904 ft-lb/in (48.3 J/m) ZX: 0.518 ft-lb/in (27.7 J/m) | XZ: 0.498 ft-lb/in (26.6 J/m) ZX: 0.407 ft-lb/in (21.7 J/m) | XZ: 1.66 ft-lb/in (88.5 J/m) ZX: 0.735 ft-lb/in (39.2 J/m) | XZ: 1.1 ft-lb/in. (58.7 J/m) |
| Heat Deflection at 264 psi | 147.23 °C | 150.8 °C | 212.2 °C | 172.9 °C | 189 °C |
| Unique Properties | High strength, and heat and chemical resistance, low outgassing | Electrostatic dissipative (ESD) properties, and high chemical resistance | High heat resistance and good compression strength for composite tooling | Flame, smoke, and toxicity (FST) rated, ULTEM™ 9085 resin Aerospace grade available | Highest heat resistance |

| | ST-130 | FDM Nylon 6 | FDM Nylon 12 ¹² | FDM Nylon 12CF ¹² | PC ¹² |
|--|---|---|--|---|---|
| System Availability | Fortus 450mc Fortus 900mc/F900 | Fortus 900mc/F900 | Fortus 360 Fortus 380mc Fortus 400mc Fortus 450mc Fortus 900mc/F900 | Fortus 380mc CFE Fortus 450mc F900 | Fortus 360mc Fortus 380mc Fortus 400mc Fortus 450mc Fortus 900mc/F900 |
| Layer Thickness | 0.013 inch (0.330 mm) | 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) | 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) | 0.010 inch (0.254 mm) | 0.005 inch (0.127 mm) ^{1, 5} 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch ⁵ (0.330 mm) |
| Support Structure | ST-130 support breakaway | SR-110 soluble support | SR-110 soluble support | SR-110 soluble support | PC support breakaway, SR-110 soluble support |
| Available Colors | ■ Natural | ■ Black | ■ Black | ■ Black | □ White |
| Tensile Strength (peak) ² | | XZ: 9,800 psi (67.6 MPa) ZX: 5,300 psi (36.5 MPa) | XZ: 7,140 psi (49.3 MPa) ZX: 6,060 psi (41.8 MPa) | XZ: 12,100 psi (83.5 MPa) ZX: 4,750 psi (32.7 MPa) | XZ: 8,390 psi (57.9 MPa) ZX: 5,150 psi (35.5 MPa) |
| Tensile Elongation @ break ² | | XZ: 38.0% ZX: 3.2% | XZ: 30.0% ZX: 6.5% | XZ: 2.4% ZX: 1.2% | XZ: 5.2% ZX: 2.0% |
| Flexural Strength | | XZ: 14,100 psi (97.2 MPa) ZX: 11,900 psi (82 MPa) | XZ: 8,190 psi (56.5 MPa) ZX: 7,900 psi (54.5 MPa) | XZ: 22,200 psi (153 MPa) ZX: 9,080 psi (62.4 MPa) | XZ: 13,100 psi (90.0 MPa) ZX: 10,900 (75.0 MPa) |
| IZOD Impact, Notched | | XZ: 2.0 ft-lb/in. (106 J/m) ZX: 0.8 ft-lb/in. (43 J/m) | XZ: 2.58 ft-lb/in (138 J/m) ZX: 1.33 ft-lb/in (71.0 J/m) | XZ: 1.99 ft-lb/in (106 J/m) ZX: 0.45 ft-lb/in (24.0 J/m) | XZ: 1.44 ft-lb/in (76.8 J/m) ZX: 0.503 ft-lb/in (26.9 J/m) |
| Heat Deflection at 264 psi | 108 °C | 93 °C | 84.3 °C | 153.7 °C | 142.2 °C |
| Unique Properties | Soluble for sacrificial tooling applications | Very high strength and toughness combined | Fatigue resistance, high elongation at break | Stiffest FDM material | Strong (tension) |

Premium materials. Premium performance.

(Continued)

| | PC-ISO | PC-ABS ¹² | ASA ¹² | ABS-ESD7 ¹² | ABS-M30 ¹² |
|--|--|---|--|--|---|
| System Availability | Fortus 380mc Fortus 400mc Fortus 450mc Fortus 900mc/F900 | F170/270/370 Fortus 360mc Fortus 380mc Fortus 400mc Fortus 450mc Fortus 900mc/F900 | F120/170/270/370 Fortus 360mc Fortus 380mc Fortus 380mc CFE Fortus 400mc Fortus 450mc Fortus 900mc/F900 | F370 Fortus 400mc Fortus 380mc Fortus 450mc Fortus 900mc/F900 | F120/170/270/370 Fortus 360mc Fortus 380mc Fortus 400mc Fortus 450mc Fortus 900mc/F900 |
| Layer Thickness | 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) 0.020 inch (0.508 mm) | 0.005 inch (0.127 mm) ¹ 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) | 0.005 inch (0.127 mm) 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) 0.020 inch (0.508 mm) | 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) | 0.005 inch (0.127 mm) ¹ 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) |
| Support Structure | PC support breakaway | QSR soluble support, SR-20™ soluble support, SR-110™ soluble support | QSR soluble support, SR-30™ soluble support, SR-35™ soluble support | QSR soluble support, SR-30 soluble support, SR-35 soluble support | QSR soluble support, SR-20 soluble support, SR-30 soluble support, SR-35 soluble support |
| Available Colors | □ White ■ Translucent Natural | ■ Black □ White ² | ■ Ivory ¹⁰ ■ Black ■ Dark Gray ■ Light Gray □ White ■ Red ■ Orange ■ Yellow ■ Green ■ Dark Blue | ■ Black | ■ Ivory □ White ■ Black ¹¹ ■ Dark Gray ■ Red ■ Blue ■ Orange ⁶ ■ Yellow ⁶ ■ Green ⁶ |
| Tensile Strength (peak) ² | XZ: 8,300 psi (57 MPa) | XZ: 5,300 psi (36.5 MPa) ZX: 3,760 psi (25.9 MPa) | XZ: 4,750 psi (32.8 MPa) ZX: 4,110 psi (28.3 MPa) | XZ: 5,130 psi (35.4 MPa) ZX: 3,920 psi (27.0 MPa) | XZ: 4,470 psi (30.8 MPa) ZX: 3,990 psi (27.5 MPa) |
| Tensile Elongation @ break ² | XZ: 4.0% | XZ: 4.7% ZX: 1.8% | XZ: 5.9% ZX: 1.8% | XZ: 3.40% ZX: 1.59% | XZ: 8.1% ZX: 1.8% |
| Flexural Strength | XZ: 13,100 psi (90 MPa) | XZ: 8,970 psi (61.9 MPa) ZX: 6,700 psi (46.2 MPa) | XZ: 8,930 psi (61.5 MPa) ZX: 7,390 psi (51.0 MPa) | XZ: 9,800 psi (67.5 MPa) XZ: 6,440 psi (44.3 MPa) | XZ: 8,510 psi (58.7 MPa) ZX: 6,910 psi (47.7 MPa) |
| IZOD Impact, Notched | XZ: 1.6 ft-lb/in. (86 J/m) | XZ: 4.52 ft-lb/in (241 J/m) ZX: 0.637 ft-lb/in (34.0 J/m) | XZ: 0.808 ft-lb/in (43.1 J/m) ZX: 0.445 ft-lb/in (23.8 J/m) | XZ: 0.678 ft-lb/in (36.2 J/m) ZX: 0.384 ft-lb/in (20.5 J/m) | XZ: 1.89 ft-lb/in (101 J/m) ZX: 0.603 ft-lb/in (32.2 J/m) |
| Heat Deflection at 264 psi | 126°C | 102.9 °C | 97.9 °C | 101.4 °C | 99.9 °C |
| Unique Properties | | Strong (impact) | UV stable with the best aesthetics of any FDM material | Electrostatic-dissipative (ESD) properties | Variety of color options |

| | Diran 410MF07 | PLA | FDM TPU 92A | ABS-CF10 |
|---|--|---|--|--|
| System Availability | F370 | F170 F270 F370 | F170 F270 F370 | F170 F270 F370 |
| Layer Thickness | 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) | 0.010 inch (0.254 mm) | 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) | 0.007 inch (0.178 mm) 0.010 inch (0.254 mm) 0.013 inch (0.330 mm) |
| Support Structure | SUP4000BT™ breakaway support | PLA model (breakaway) | QSR soluble support | QSR |
| Available Colors | ■ Dark Gray | <ul style="list-style-type: none"> ■ Black □ White ■ Light Gray ■ Medium Gray ■ Red ■ Blue ■ Natural Translucent ■ Red Translucent ■ Blue Translucent ■ Yellow Translucent ■ Green Translucent | ■ Black | ■ Black |
| Tensile Strength (peak) ² | XZ: 6,490 psi (44.8 MPa) ZX: 4,460 psi (30.7 MPa) | XZ: 6,990 psi (48 MPa) ZX: 3,830 psi (26 MPa) | XY: 2,432 psi (16.8 MPa) XZ: 2,519 psi (17.4 MPa) | XZ: 5,465 psi (37.7 MPa) ZX: 3,100 psi (21.3 MPa) |
| Tensile Elongation @ break ² | XZ: 12.0% ZX: 3.1% | XZ: 2.5% ZX: 1.0% | XY: 552% XZ: 482% | XZ: 2.70% ZX: 1.49% |
| Flexural Strength | XZ: 8,690 psi (59.9 MPa) ZX: 6,770 psi (46.7 MPa) | XZ: 12,190 psi (84 MPa) ZX: 6,570 psi (45 MPa) | - | XZ: 10,000 psi (69.0 MPa) ZX: 4,240 psi (29.2 MPa) |
| IZOD Impact, Notched | XZ: 8.28 ft-lb/in (442 J/m) ZX: 0.502 ft-lb/in (26.8 J/m) | XZ: 0.5 ft-lb/in. (27 J/m) | - | XZ: 0.962 ft-lb/in (51.4 J/m) ZX: 0.381 ft-lb/in (20.3 J/m) |
| Heat Deflection at 264 psi | 70 °C | 51 °C | - | 99 °C |
| Unique Properties | Smooth, lubricious texture with low sliding friction | Low-cost, fast-draft printing | Elastomer | Carbon fiber-filled 10% |

¹ 0.005 in. (0.127 mm) layer thickness not available for the Stratasys F900.

² See individual material datasheets for testing details.

³ 0.013 in. (0.330 mm) layer thickness for PPSF not available on the Stratasys F900.

⁴ It is the responsibility of the finished device manufacturer to determine the suitability of all the component parts and materials used in their finished products.

⁵ PC can attain 0.013 in. (0.330 mm) layer thickness when used with breakaway support. PC can attain 0.005 in. (0.127mm) layer thickness when used with SR-100™ soluble support.

⁶ Available only on the Stratasys F123™ Series.

⁷ Available only on the Stratasys F370.

⁸ Available on Fortus 400mc and Stratasys F900.

⁹ Available on the F170, F270, F370 and F900.

¹⁰ F120 is only available with ASA Ivory.

¹¹ ABS is only available in Black on the F120.

¹² As printed on the F900.

Advanced materials. Designed to give you more.



We not only provide the widest choice of materials, we'll also help you get the best out of them.

We're continually developing and investing in our hardware, software and services to help you get the best possible results. Improving accuracy, flexibility and reliability. All in less time, with less hassle.

Make it with Stratasys.

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