



stratasys
direct



MATERIALS

3D PRINTING & ADVANCED MANUFACTURING \ FEBRUARY 2026

(Engineering Grade Materials in blue)

	Description	Color		Hardness	Elongation @ Break	Tensile Strength	Flexural Modulus	Heat Deflection Temperature @ 264 psi
<u>Agilus 30 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		30 – 35 (Shore A)	220 – 240%	348 – 450 psi (2.4 – 3.1 MPa)	—	—
<u>Agilus 40 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		40 – 45 (Shore A)	180 – 210%	435 – 580 psi (3 – 4 MPa)	—	—
<u>Agilus 50 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		50 – 55 (Shore A)	160 – 210%	435 – 580 psi (3 – 4 MPa)	—	—
<u>Agilus 60 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		55 – 60 (Shore A)	120 – 170%	508 – 653 psi (3.5 – 4.5 MPa)	—	—
<u>Agilus 70 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		60 – 70 (Shore A)	90 – 140%	580 – 870 psi (4 – 6 MPa)	—	—
<u>Agilus 85 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		80 – 85 (Shore A)	70 – 85%	870 – 1,450 psi (6 – 10 MPa)	—	—
<u>Agilus 95 A (Flexible)</u>	A rubber-like photopolymer material that simulates the look, feel and function of rubber products. Capable of withstanding repeated flexing and bending.	Black, multi-color		85 – 90 (Shore A)	40 – 60%	450 – 2,031 psi (10 – 14 MPa)	—	—
<u>Digital ABS Plus</u>	A photopolymer material that simulates ABS plastic by combining strength with high-temperature resistance. Simulates parts that require high-impact resistance and shock absorption.	Ivory		85 – 87 (Shore D)	25 – 40%	7,947 – 8,700 psi (55 – 60 Mpa)	245 – 320 ksi (1,700 – 2,200 Mpa)	124 – 131°F (51 – 55°C)
<u>Overmold (Agilus Over Vero)</u>	A combination of the flexible Agilus and rigid Vero materials for designs requiring rigid and flexible components. Available in a wide variety of Shore-A values and colors.	Multi-color and Multi-material	Rigid substrate	83 – 86 (Shore D)	10 – 25%	7,250 – 9,450 psi (50 – 65 MPa)	320 – 465 kpsi (2,200 – 3,200 MPa)	113 – 122°F (45 – 50°C)
			Flexible substrate	30 – 95 (Shore A)	40 – 240%	348 – 2,031 psi (2.4 – 14.0 MPa)	—	—
<u>Vero (Rigid)</u>	Rigid, single-color, photopolymer material that combines dimensional stability and excellent fine feature detail.	Translucent, white, black, blue, cyan, magenta, yellow.		83 – 86 (Shore D)	10 – 25%	7,250 – 9,450 psi (50 – 65 MPa)	265 – 465 ksi (1,900 – 3,200 MPa)	113 – 122°F (45 – 50°C)
<u>Vero (Rigid) Multi-Color</u>	Rigid, photopolymer material that combines dimensional stability and excellent fine feature detail. Blend transparent, opaque and colors to achieve custom, multi-color designs.	Any blend of translucent, white, black, cyan, magenta, yellow, multi-color.		83 – 86 (Shore D)	10 – 25%	7,250 – 9,450 psi (50 – 65 MPa)	320 – 465 ksi (2,200 – 3,200 MPa)	113 – 122°F (45 – 50°C)
<u>ToughONE™</u>	Seamlessly transition from form-fit visual prototypes to robust functional high impact resistance prototypes, making it the ideal choice for industries demanding both strength and precision.	White		72 – 74 (Shore D)	45 - 55%	7,000 - 7,700 psi (48 – 53 MPa)	300 - 350 ksi (2100-2400 MPa)	138.2-143.6 °F (59-62 °C)
<u>MED610-DSG™</u>	Transparent, rigid and bio-compatible material. Ideal for medical application involving long-term contact to intact skin, tissue, bone and dentin.	Clear		83 – 86 (Shore D)	10 – 25%	7,252 - 9,450 psi (50 – 65 MPa)	320 – 465 ksi (2,200 – 3,200 MPa)	113 – 122°F (45 – 50°C)
<u>MED615RGD™</u>	Rigid and medical grade material ideal for medical applications requiring precision and patient contact. Suitable for permanent contact with intact skin.	Opaque Ivory		83 – 86 (Shore D)	10 – 25%	7,947 - 9,450 psi (55 – 65 MPa)	33.35 – 474.6 ksi (2,300 – 3,300 MPa)	113 – 122°F (45 – 50°C)

Stereolithography (SLA)

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(Engineering Grade Materials in blue)							
	Description	Water Absorption	Elongation @ Break	Tensile Strength	Flexural Modulus	Izod Impact Strength (Notched)	Heat Deflection Temperature @ 264 psi
Somos® BioClear™	Clear material with accurate guides and surgical models. non-implantable limited body contact (<24hr) medical and dental applications.	0.35%	15.5%	7,300 psi (50.4 MPa)	320 ksi (2,205 MPa)	0.47 ft-lb/in (25 J/m)	120°F (49°C)
Somos® Evolve 128	Durable and high strength, suited for form, fit and functional testing of snap-fit components.	0.40%	4% – 8%	7,758 psi (53 MPa)	280 ksi (1,930 MPa)	0.35 ft-lb/in (19 J/m)	122°F (50°C)
Somos® Taurus™	Somos Taurus is a tough and durable SLA material with high heat resistance and strong mechanical properties. It allows both prototyping and low-volume production with a smooth finish, consistent performance and a dark charcoal aesthetic.	UV Postcure - 0.75%	24%	6,800 psi (46.9 MPa)	298 ksi (2,054 MPa)	0.89 ft-lb/in (47.5 J/m)	122°F (50°C)
		Thermal Postcure - 0.75%	17%	7,000 psi (49 MPa)	250 ksi (1,724 MPa)	0.67 ft-lb/in (35.8 J/m)	163°F (73°C)
Somos® WaterClear Ultra 10122	A colorless material suited for lenses and electronic covers.	1.10%	7.5%	8,100 psi (56 MPa)	361 ksi (2,490 MPa)	0.47 ft-lb/in (25 J/m)	109°F (43°C)
Somos® WaterShed® Black	A more true black color off the machine with superior aesthetics and performance. Color does not degrade from exposure to UV light.	0.35%	15.5%	7,300 psi (50.4 MPa)	320 ksi (2,205 MPa)	0.47 ft-lb/in (25 J/m)	120°F (49°C)
Somos® WaterShed® XC 11122	Produces highly detailed parts with great clarity and water-resistance.	0.35%	15.5%	7,300 psi (50.4 MPa)	320 ksi (2,205 MPa)	0.47 ft-lb/in (25 J/m)	120°F (49°C)
Somos® 9120	Superior fatigue properties, strong memory retention and high quality up-facing and down-facing surfaces. Somos® 9120 also offers a good balance of properties between rigidity and functionality.	–	25%	4,350 - 4,600 psi (30 - 32 MPa)	210 ksi (1,455 MPa)	1.0 ft-lb/in (53 J/m)	126°F (52°C)

Programmable Photopolymerization (P3™ DLP)

Description		Category	Elongation @ Break	Ultimate tensile strength	Hardness	Color	HDT
LOCTITE® 3D 3172 Moderately, flexible, ductile, great impact strength.		Tough	105%	39 MPa	72 D	Cyan, Gray	51 C
LOCTITE® 3D 3843 High strength, versatile all-around polymer.		Tough	43%	53 MPa	74 D	Black, Clear, White	60 C
LOCTITE® 3D 3955 FST Very high temperature, high stiffness, FST.		Tough	2%	65 MPa	85 D	Black	213 C
LOCTITE® 3D IND402 TPU-like elastomer with good tear strength and elongation at break.		Elastomer	230%	5.5 MPa	75-90 A	Black	–
LOCTITE® 3D MED413™ High-performance, high modulus material with excellent flexural and tensile physical properties. Ideal for use in a wide variety of impact resistant medical devices.		Tough	50%	40 MPa	76 D	Clear, White	52 C
Somos® Weather X 100 Environmentally durable, good property retention after UV and chemical exposure.		Tough	19.1%	60 MPa	–	Black	73 C

Selective Laser Sintering (SLS)

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(Engineering Grade Materials in blue)

	Description	Izod Impact Strength (Notched)	Elongation @ Break	Tensile Strength	Flexural Modulus	Heat Deflection Temperature @ 264 psi
			XY Axis	XY Axis	XY Axis	XY Axis
Nylon 11	Original high elongation and impact strength SLS material specified in many aerospace products.	1.30 ft-lb/in (70 J/m)	32%	6,817 psi (47 MPa)	126 ksi (869 MPa)	111°F (43°C)
Nylon 11 EX	Next generation Nylon 11 with elongation and impact strength of the original but with better surface finish and feature definition.	1.40 ft-lb/in (74 J/m)	47%	6,981 psi (48 MPa)	190 ksi (1,310 MPa)	118°F (48°C)
Nylon 11 FR	Flame, smoke and toxicity (FST) certified Nylon 11 per FAR 25.853.	1.30 ft-lb/in (70 J/m)	38%	6,700 psi (46 MPa)	225 ksi (1,551 MPa)	187°F (86°C)
Nylon 12 AF	Aluminum-filled Nylon 12 for the appearance of aluminum.	–	3.5%	4,628 psi (32 MPa)	289 ksi (1,990 MPa)	279°F (137°C)
Nylon 12 CF	Electrostatically dissipative with high strength-to-weight ratio.	0.428-0.753 ft-lb/in (22.9-40.2 J/m)	5.7%	8,750 psi (60 MPa)	880 ksi (6,067 MPa)	341°F (172°C)
Nylon 12 FR	Flame, smoke and toxicity (FST) certified Nylon 12 per FAR 25.853.	0.8 ft-lb/in (43 J/m)	8%	6,962 psi (48 MPa)	217 ksi (1,500 MPa)	187°F (86°C)
Nylon 12 GF	Glass-filled Nylon 12 with higher tensile modulus & HDT.	0.8 ft-lb/in (40 J/m)	3%	6,400 psi (44 MPa)	411 ksi (2,834 MPa)	273°F (134°C)
Nylon 12 HST	High strength and high-temperature mineral fiber-filled plastic.	0.7 ft-lb/in (37.4 J/m)	4.5%	7,050 psi (48 MPa)	640 ksi (4,412 MPa)	355°F (179°C)
Nylon 12 PA	General purpose Nylon 12 with good surface finish and feature definition with less deformation than Nylon 11.	0.8 ft-lb/in (43 J/m)	15%	6,815 psi (46 MPa)	188.5 ksi (1,300 MPa)	187°F (86°C)

Selective Absorption Fusion (SAF®)

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	Description	Izod Impact Strength (Notched)	Elongation @ Break	Tensile Strength	Flexural Strength	Heat Deflection Temperature @ 264 psi
			XY Axis	XY Axis	XY Axis	XY Axis
(Engineering Grade Materials in blue) High Yield PA11	Nylon 11 with high ductility and impact resistance. Suitable for a wide range of applications and enabled for production-level yields.	3.5 ft-lb/in ² (7.4 kJ/m ²)	30%	7,397 psi (51 MPa)	5,033 psi (35 MPa)	117°F (47°C)
Nylon PA12	Tough, durable thermoplastic with good strength and feature definition.	1.67 ft-lb/in ² (3.5 kJ/m ²)	20%	6,960 psi (48 MPa)	9,425 psi (65 MPa)	203°F (95°C)
Nylon PA12 GF	High stiffness and improved temperature resistance with a low thermal expansion and Improved dimensional stability.	0.81 ft-lb/in ²	4%	5300 psi (36 MPa)	9300 psi (64 MPa)	232°F (111°C)
Polypropylene (PP)	High Accuracy, Extensive Design Flexibility, Competitive Per-Part Costs Low Warpage, airtight, fluid-tight, ductile, and chemically resistant.	1.67 ft-lb/in ² (3.5 kJ/m ²)	22%	3,740 psi (26 MPa)	3,570 psi (25 MPa)	132°F (56°C)

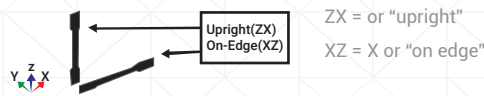
Multi Jet Fusion (MJF)

	Description	Izod Impact Strength (Notched)	Elongation @ Break	Tensile Strength	Flexural Strength	Heat Deflection Temperature @ 264 psi
			XY Axis	XY Axis	XY Axis	XY Axis
Nylon 12 PA	Tough, durable thermoplastic with good strength and feature definition.	1.67 ft-lb/in ² (3.5 kJ/m ²)	20%	6,960 psi (48 MPa)	9,425 psi (65 MPa)	203°F (95°C)
PA 12-W	White finish for medical or consumer parts with fine feature resolution.	2.14 ft-lb/in ² (4.5 kJ/m ²)	17%	7,107 psi (49 MPa)	9,425 psi (65 MPa)	199°F (93°C)
Polypropylene	High-impact and chemical resistant thermoplastic.	1.67 ft-lb/in ² (3.5 kJ/m ²)	20%	4,206 psi (48 MPa)	–	203°F (60°C)

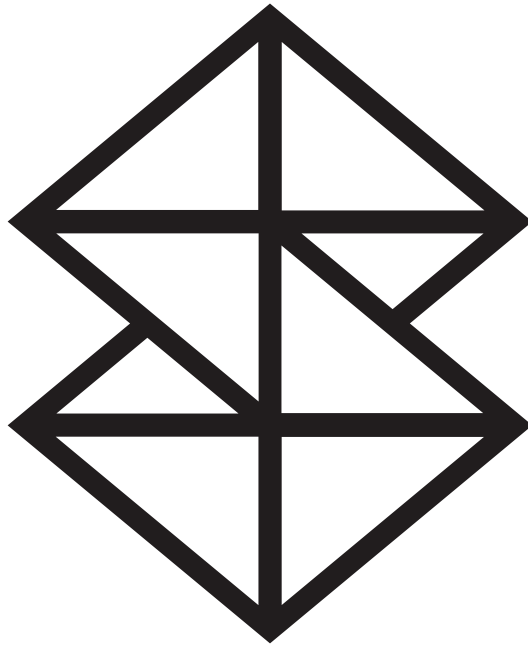
Fused Deposition Modeling (FDM®)

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	Description	Tensile Strength	Tensile Elongation @ Break	Flexural Modulus	Izod Impact Strength (notched)	Heat Deflection Temperature @ 264 psi
		XZ Axis	XZ Axis	XZ Axis	XZ Axis	
ABS CF-10	Combines standard ABS material with 10% chopped carbon fiber by weight. The result is a low moisture-sensitive FDM® thermoplastic 50% stiffer and 15% stronger than standard ABS 3D printing material.	5,465 psi (37.7 MPa)	2.70%	545ksi (3,757 MPa)	0.962 ft-lb/in (51.4 J/m)	210°F (90°C)
ABS-ESD7	Strong ABS thermoplastic compounded with carbon resulting in static dissipative properties.	5,200 psi (36 MPa)	3%	350 ksi (2,413 MPa)	0.5 ft-lb/in (26.7 J/m)	180°F (82°C)
ABS-M30	General use “go-to” material. Up to 70% stronger than ABS. Variety of color options. Good for small parts to parts larger than 5'.	4,650 psi (32 MPa)	7%	300 ksi (2,068 MPa)	2.4 ft-lb/in (128 J/m)	180°F (82°C)
ABS-M30i	Bio-compatible (ISO 10993; USP Class VI); NSF 51 Food-contact certification. Good tensile, flexural, & impact strength. Gamma and EtO sterilizable.	5,200 psi (36 MPa)	4%	336 ksi (2,317 MPa)	2.6 ft-lb/in (139 J/m)	180°F (82°C)
Antero 800NA (PEKK)	PEKK-based with high wear, heat & chemical resistance and low outgassing. FST certified per 14 CFR/FAR 25.853 & ASTM F814/E662.	13,504 psi (93 MPa)	6.4%	445 ksi (3,068 MPa)	0.69 ft-lb/in (37 J/m)	296°F (147°C)
Antero 840CN03	A high-performance PEKK based electrostatic discharge (ESD). Thermoplastic material with high heat and chemical resistance, ultra-low outgassing.	13,600 psi (93.9 MPa)	12%	498 ksi (3,433 MPa)	0.842 ft-lb/in (45 J/m)	303.4°F (150.8 C)
ASA	General use “go-to” material. Great aesthetics & matte finish. Variety of color-fast colors; UV-stable; resists significant mechanical degradation from UV exposure.	4,750 psi (33 MPa)	9%	270 ksi (1,862 MPa)	1.2 ft-lb/in (64.1 J/m)	196°F (91°C)
Nylon 12	High fatigue resistance. Resistance to moderate solvents, alcohols, chemicals, exposure to shock, repeat load cycles, stress or vibration.	6,650 psi (46 MPa)	30%	185 ksi (1,276 MPa)	2.5 ft-lb/in (133 J/m)	180°F (82°C)
Nylon 12CF™	Highly rigid chopped Carbon Fiber filled Nylon 12; Electrostatic Discharge (ESD) properties. Aluminum replacement capable.	10,960 psi (76 MPa)	1.9%	1,500 ksi (10,342 MPa)	1.6 ft-lb/in (85 J/m)	289°F (143°C)
PC	High tensile and flexural strength; higher heat resistance. Durable, strong, and RF transparent.	8,300 psi (57 MPa)	4.80%	291 ksi (2,006 MPa)	1.4 ft-lb/in (74.7 J/m)	261°F (127°C)
PC-ABS	Superior strength and heat resistance of PC with flexibility of ABS. High impact and heat resistance.	5,900 psi (41 MPa)	6%	280 ksi (1,931 MPa)	3.7 ft-lb/in (198 J/m)	205°F (96°C)
PC-ISO	High tensile and flexural strength, higher heat resistance, durable, and strong. RF transparent. Gamma & EtO sterilizable; Bio-compatible (ISO 10993; USP Class VI).	8,300 psi (57 MPa)	4%	310 ksi (2,140 MPa)	1.6 ft-lb/in (85.4 J/m)	260°F (127°C)
TPU 92A	Very durable elastomer with a Shore A value of 92; exhibits high elongation, superior toughness, abrasion resistance, and memory/recovery.	2,519 psi (17.4 MPa)	482%	5 ksi (37 MPa)	–	@ 66 psi 100.4°F (38°C)
ULTEM™1010 resin	Rigid, heat resistant, steam autoclavable; NSF-51 food contact rated; Bio-compatible ISO 10993/USP Class VI; FST certified per 14 CFR/FAR 25.853 & ASTM F814/E662.	11,700 psi (81 MPa)	3.30%	409 ksi (2,820 MPa)	0.8 ft-lb/in (42.7 J/m)	415°F (213°C)
ULTEM™ 9085 resin	High strength to weight ratio, high thermal and chemical resistance. FST certified per 14 CFR/FAR 25.853 & ASTM F814/E662.	9,950 psi (69 MPa)	5.80%	331 ksi (2,282 MPa)	2.2 ft-lb/in (117 J/m)	307°F (153°C)
ULTEM™ 9085 CG resin	Increased mechanical properties; leading lowest coefficient of variation. FST certified per 14 CFR/FAR 25.853 & ASTM F814/E662.	11,200 psi (77MPa)	6.21%	381 ksi (2,600 MPa)	2.2 ft-lb/in (117 J/m)	307°F (153°C)
VICTREX AM™ 200	High-performance, low-melt PAEK (polyaryletherketone) designed specifically for additive manufacturing.	5,410 psi (37.3 MPa)	6.20%	327 ksi (2,254 MPa)	1.4 ft-lb/in (74.7 J/m)	–



ZX = or “upright”
XZ = X or “on edge”



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