FDM 3D Printing Materials

FDM (Fused Deposition Modeling) is widely used by manufacturers for its **strength, reliability, and versatility**, making it ideal for functional prototypes, tooling, and end-use parts.

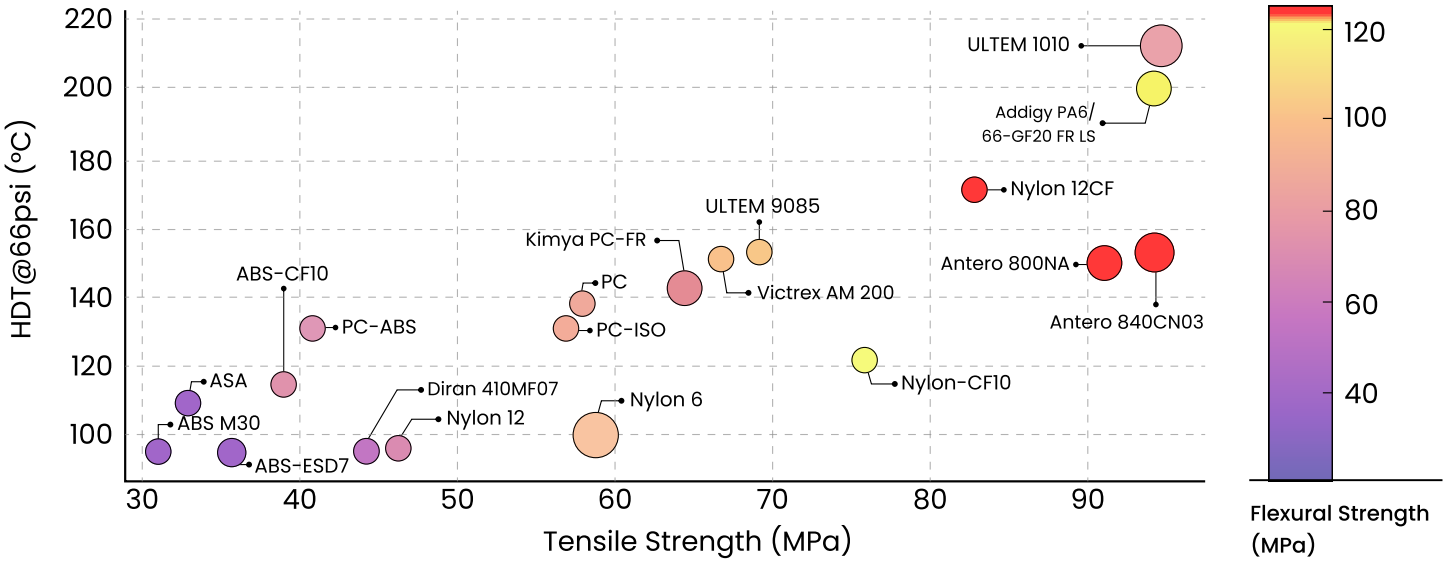
MAX BUILD VOLUME

1,000 x 610 x 914 mm	39.4 x 24 x 36 in

Elastomer | Heat Resistant | Impact Resistant | Chemical Resistant | Static Dissipative | Biocompatible

	Tensile Strength	Flexural Strength	Elongation at Break(%)	HDT @66 psi
ABS-M30	32 MPa	44 MPa	7%	96 °C
	Standard ABS with improved strength and toughness			
ABS-ESD7	36 MPa	51 MPa	3%	96 °C
	Static dissipative ABS for electronic applications			
ABS-CF10	39.4 MPa	74.5 MPa	1.4%	117 °C
	50% stiffer and 15% stronger than standard ABS			
ASA	33 MPa	46 MPa	9%	105 °C
	UV-stable ABS alternative for outdoor use			
Nylon 12	45 MPa	75 MPa	30%	96 °C
	Strong, tough, high fatigue resistance			
Nylon 6	59 MPa	97 MPa	40%	100 °C
	High toughness and strength			
PC	57 MPa	89 MPa	6%	138 °C
	High strength, heat-resistant			
PC-ABS	41 MPa	74 MPa	6%	135 °C
	Tough and impact-resistant			
PC-ISO	57 MPa	90 MPa	6%	132 °C
	Biocompatible, medical-grade PC			
TPU 92A	26 MPa	26 MPa	500%	48 °C
	Elastomer thermoplastic with high wear resistance.			

	Tensile Strength	Flexural Strength	Elongation at Break(%)	HDT @66 psi
ULTEM 1010	95 MPa	82 MPa	1.5%	216 °C
	High heat & chemical resistance, biocompatible			
ULTEM 9085	69 MPa	103 MPa	3%	153 °C
	Flame-retardant, FST rated, aerospace-grade			
Nylon-CF10	76 MPa	124 MPa	2%	121 °C
	Carbon-fiber reinforced nylon			
Nylon 12CF	83.5 MPa	153 MPa	1.9%	175 °C
	High flexural strength, lightweight metal alternative			
Kimya PC-FR	66 MPa	93 MPa	2.7%	140 °C
	Strong, rigid, and flame retardant			
Antero 800NA	93 MPa	152 MPa	3.3%	150 °C
	High heat resistance and chemical resistance			
Diran 410MF07	44.8 MPa	59.9 MPa	12%	90 °C
	Tough, chemical resistant, low friction surface			
Victrex AM 200	67 MPa	99 MPa	15%	154 °C
	High heat resistance and chemical resistance			
Addigy PA6/ 66-GF20 FR LS	95 MPa	140 MPa	2.5%	200 °C
	Flame retardant and high mechanical strength			
Antero 840CN03	94.9 MPa	146 MPa	4.9%	158 °C
	ESD-safe, chemical resistant, low outgassing			



R&D Technologies
Stratasys Certified Reseller

RND-TECH.COM
Printing Service: 3dparts@rnd-tech.com
401-885-6400 | North Kingstown, RI

PolyJet Technology

Looking to create vibrant, accurate prototypes with soft-touch or flexible features? Stratasys PolyJet printing brings your renderings to life with realistic textures and intricate detail.

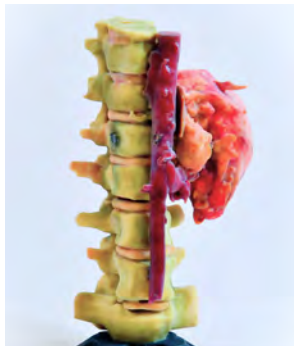
Max Build Volume	490 x 390 x 200 mm	19.3 x 15.35 x 7.9 in

600,000 Color Options | Multi-Color | Overmolding | Custom Flexibility | High Resolution | Rigid

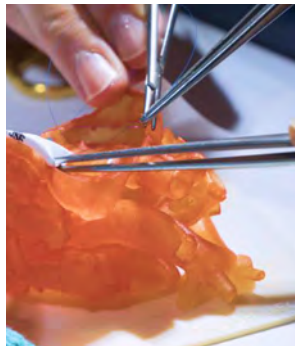
Translucent

Elastomer

Textured Garment



Anatomical Model



Surgical Planning

MATERIALS

Vero	Rigid and opaque materials for creating visual prototypes in multiple colors	Agilus	Rubber-like material for simulating soft-touch components, seals, and wearables
Vero Clear	Transparent and rigid. Excellent for visualizing internal components	Tough One	Strongest Polyjet material with high precision, impact resistance, and moderate flexibility
Rigur	Semi-rigid material simulating polypropylene, with enhanced durability and flexibility	Digital ABS	Tough, heat resistant material that simulates standard ABS plastic

P3 Technology (DLP)

Need high-quality parts without the hassle of molds? Stratasys P3 gives you smooth, functional parts that look like they were injection-molded.
Great for testing, prototyping, or even selling small batches—it's your shortcut to production-ready results.

Max Build Volume	192 x 108 x 370 mm	7.5 x 4.25 x 14.5 in

	HDT @ 0.455 MPa	Elongation at Break	Tensile Strength	Color Option
Dura56	52°C	78%	56 MPa	Black
	Very smooth surface. Best for design prototype.			
ST45	63°C	21%	? MPa	Black, Clear
	Good stiffness and moderate toughness			
WeatherX 100	73°C	20%	65 MPa	Black
	Weather resistant, **low moisture absorption**			
3172	52°C	100%	73 MPa	Black
	High-toughness for rugged, impact-resistant parts			
3843	63°C	55%	59 MPa	Cyan, Grey
	High-toughness for rugged, impact-resistant parts			

	HDT @ 0.455 MPa	Elongation at Break	Tensile Strength	Color Option
P3 Sillicone 25A	-	672%	-	Grey
	Silicone-like **elastomer**. Shore 25A			
P3 Stretch IND475	-	122%	-	Black
	Elastomer with high rebound. Shore 75A			
IND402	-	230%	-	Black
	Stiff rubber-like **elastomer**, Shore 75 ~ 85A			
IND3380 ESD	200°C	2%	50 MPa	Black
	Heat resistant, ESD safe for electric housings			
MED413	70°C	50%	27 MPa	White
	Biocompatible resin certified to ISO 10993-5, -10, and -22			

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