

# PROCESS COMPARISON CHART

SLA Stereolithography	ProJet	ZPrint	SLS Selective Laser Sintering	FDM Fused Deposition Modeling	Cast Urethanes
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## APPLICATIONS

<p>Excellent for Fit and Form Testing.</p> <p>Ideal for trade show-quality parts via painting and texturing.</p> <p>Best process for water resistant materials, not waterproof.</p>	<p>Excellent for High Res applications with complex geometries.</p> <p>Smooth surface with good impact strength.</p> <p>Comparable to SLA.</p>	<p>Excellent for demonstration models with full color printing.</p>	<p>Ideal for durable, functional parts with a variety of applications.</p> <p>Capable of producing snap fits and living hinges.</p> <p>Heat and chemically resistant.</p>	<p>Ideal for Conceptual models, Engineering models, and Functional testing prototypes.</p> <p>Good choice for high-heat applications as melting temperature is around 280°F</p>	<p>Ideal for &lt; 100 marketing samples.</p> <p>Production-like Attributes (surface finish, color, accuracy &amp; Material Properties).</p>
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## MAXIMUM DIMENSIONS

25.6" x 29.5" x 21.65"	11.75" x 7.3" x 8"	20" x 15" x 9"	28" x 19" x 19"	<p>ABS 23" x 19" x 23"</p> <p>Polycarbonate 14" x 16" x 16"</p>	25" x 25" x 21"
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## MACHINES

ProJet 7000, ProJet 6000, SLA 7000, SLA 5000, & iPro	ProJet 3500 HDMax	ZPrinter 450, ZPrinter 650, & ZPrinter 850 (coming soon)	Vanguard Si2 System, Sinterstation HiQ & Pro	Vantage, Titan & Maxum	RTV Tooling
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## LAYER THICKNESS

<p>High-Resolution: 0.002" - 0.004"</p> <p>Standard Resolution: 0.005" - 0.006"</p>	Horizontal build layers down to 16 microns (0.0006 inches)	0.0035" - 0.004"	Standard Resolution: 0.004"	<p>Standard Resolution: 0.01"</p> <p>Minimum wall thickness is 0.02"</p>	<p>High-Resolution: 0.002" - 0.004"</p> <p>Standard Resolution: 0.005" - 0.006"</p>
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## MATERIAL OPTIONS

<p>ABS-Like White (Standard &amp; High Res), ABS-Like Gray, ABS-Like Black, Rigid PC-Like (Standard &amp; High Res), Durable PP-Like (Standard &amp; High Res), Semi-Flexible PE-Like, High-Impact ABS-Like, High-Temp ABS-Like, High-Temp PC-Like, Rigid &amp; Technician's Choice</p>	<p>ABS-like VisiJet X, VisiJet Crystal, VisiJet Proplast, VisiJet Navy, VisiJet Techplast, VisiJet Procast</p>	<p>Sandstone Zp150 Composite White</p>	<p>Nylon, Glass-Filled Nylon, Durable Nylon, Flame-Retardant Nylon</p>	<p>ABS, ABS-M 30, ABSi, PC-ABS, ABS-M30i, PC-ISO, Ultem, PC, PPSF &amp; Polycarbonate</p>	<p>ABS-Like, PE-Like, Lexan-Like, Glass Filled Nylon, High Strength, Elastomer (25A, 42A, 60A, 80A), High Temp, &amp; RC 79D MRI Transparent</p>
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## FINISH OPTIONS

<p>Strip &amp; Ship, Standard, Primed, Painted, WaterClear, &amp; Nickel-plated</p>	Standard Finish Only	Standard, Color, Clear Coat, Wax Coat	Standard finish rougher than SLA due to base material being a powder.	No special finishing due to toughness of material.	Standard, Show-Quality, Light Pipe Finish, & Textures Available.
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## LEAD TIME OPTIONS

<p>Same Business Day Shipment, Next Business Day Shipment, # of Business Days from Order Date</p>	2 - 5 days	2 - 5 days	<p>Next-day shipment, Standard (3 - 5 days), Economy (8 - 10 days)</p>	Standard (3 - 5 days)	<p>Standard (6 - 9 days for first articles)</p> <p>Part production: (2 - 4 parts/day)</p>
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## RECOMMENDED MINIMUM FEATURE SIZE

<p>High-Resolution: 0.010" - 0.015"</p> <p>Standard Resolution: 0.025" - 0.035"</p>	0.025"	0.040"	0.030" - 0.040"	0.025"	0.025"
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