

American Precision Prototyping

Stereolithography (SLA®)

Next day Service Available



Tolerances: +/- .003" for first 3 inches; +/- .001" for each additional inch
Maximum Build Dimensions: Viper™ Pro: 25.6x29.5x21.65 Standard: 24x24x24

Materials	Appearance	Finish Options	Mechanical Properties	Applications
Accura® 25	Off White	Standard -Mold/Paint Ready Foundry/Plating Ready - Color Paint	Simulates Polypropylene - 80 Shore D Tensile Strength: 5450-5570 PSI Flexural Strength:7960-8410 PSI	Automotive Parts - Electronics Concept Models - Snap Fit Models
Accura® 55	White	Standard - Mold/Paint Ready Foundry/Plating Ready - Color Paint	Simulates Molded ABS - 85 Shore D Tensile Strength: 9200-9850 PSI Flexural Strength: 12830-15920 PSI	Electronics - Functional Models Master Patterns
Accura® 60	Clear	Standard - Polish - QuickCast Mold/Paint Ready - Color Paint Foundry/Plating Ready - Color Dye	Simulates Polycarbonate - 86 Shore D Tensile Strength: 8410-9860 PSI Flexural Strength: 12620-14650 PSI	Quickcast Patterns - Transparent Models - Medical Applications Visualization Models
Accura® Xtreme	Gray	Standard - Mold/Paint Ready - Foundry/Plating Ready - Color Paint	Simulates Molded Plastic - 86 Shore D Tensile Strength:5510-6380 PSI Flexural Strength:7540-10300 PSI Thermal Resistance over 60°C	Master Patterns Durable Assemblies Snap Fit Assemblies Fit/Form/Function Models
Accura® Bluestone	Blue	Standard - Color Paint High Heat Resistant Paint Foundry/Plating Ready	Nanocomposite - 92 shore D Heat Deflection: 513-543°F Tensile Strength: 9.6-9.8 KSI Flexural Strength: 18-22.3 KSI	Wind Tunnel Models High Heat Models - Electronics CMM Fixtures Functional Models Water Applications

Polyjet 3D Printing (3DP)

Average 2-3 Day Lead Time



Tolerances: +/- .003" for first 3 inches; +/- .001" for each additional inch
Maximum Build Dimensions: 19.7x15.7x8

Materials	Appearance	Finish Options	Mechanical Properties	Applications
Polyjet Fullcure 720	Translucent Amber	Standard - Color Paint - Color Dye Foundry/Plating Ready - Metal Coating	Acrylic Based Photopolymer - 83 Shore D Tensile Strength: 8744 PSI Flexural Strength: 10991 PSI Water Absorption: 1.72%	Master Patterns for Tooling Visualization Models Flow Models
Polyjet VeroWhite	White	Standard - Foundry/Plating Ready	Tensile Strength:7721 PSI - 83 Shore D Flexural Strength:10817 PSI Ash Content: <.4% Water Absorption: 1.47%	Medical Applications Jewelry Models Investment Casting Master Patterns
Polyjet VeroBlue	Blue	Standard - Foundry/Plating Ready	Tensile Strength: 7990 PSI - 83 Shore D Flexural Strength:12122 PSI Ash Content: <.3% Water Absorption: 1.87%	Medical Applications Jewelry Models Investment Casting Master Patterns
Polyjet VeroBlack	Black	Standard - Foundry/Plating Ready	Tensile Strength: 7,352 PSI - 83 Shore D Flexural Strength:11,542 PSI	Medical Applications Jewelry Models Investment Casting Master Patterns
Polyjet TangoGray	Gray	Standard	Tensile Strength: 632 PSI - 75 Shore A Elongation at Break:47% Tensile Tear Resistance: 54lb/inch	Electronic Applications Automotive Applications Toys - Rapid Tooling
Polyjet TangoPlus	Translucent Amber	Standard	Tensile Strength: 211PSI - 27 Shore A Elongation at Break:218% Tensile Tear Resistance: 20lb/inch	Electronic Applications Automotive Applications Toys - Rapid Tooling

Selective Laser Sintering (SLS®)

Average 3-4 Day Lead Time



Tolerances: +/- .003" for first 3 inches; +/- .001" for each additional inch
Maximum Build Dimensions: 19.7x15.7x8

Materials	Appearance	Finish Options	Mechanical Properties	Applications
Performance Polyamide	Yellow	Natural - Liquid Proof - Mold/Paint Ready Color Paint - Sealed	Polyamide Nylon - 73 shore D Tensile Strength: 5200-6700 PSI Heat Deflection Temp: 186°F	Medical Applications Presentation Models Fit Check Models
Glass Reinforced Polyamide	Gray	Natural - Liquid Proof - Mold/Paint Ready - Color Paint - Sealed	Glass Filled Polyamide Nylon - 77 shore D Heat Deflection 223°F Tensile Strength:4400-5800 PSI	Medical Applications Presentation Models Fit Check Models
Impact Resistant Polyamide	White	Natural - Color Dye	Simulates Injection Molded Polypropylene & ABS Melting Point:366.8°F Tensile Strength:5600-6700 PSI 74 shore D	Housings - Enclosures - Impellers
Thermoplastic Elastomer	Various Colors	Natural - Various Colors	Simulates Thermoplastic Elastomer 40-60 Shore A Tensile Modulus:700-1200 psi	Gaskets - Hoses - Seals Functional Models
Castform™ PS	Red Wax	Wax Coated	Heat Deflection 513-543°F Tensile Strength:412 PSI Melting Point: >145°F - Ash Content: .02%	Investment Casting Master Patterns

Fused Deposition Modeling (FDM™)

Average 5-6 Day Lead Time



Tolerances: +/- .005" for first 2 inches; +/- .002" for each additional inch
Maximum Build Dimensions: 24x20x24

Materials	Appearance	Finish Options	Mechanical Properties	Applications
FDM™ ABS	White - Black - Red	Standard	Tensile Strength: 3200 PSI Flexural Strength: 6000 PSI	Concept Designs Functional Models Snap Fit Models Low Volume Production
FDM™ PC	Light Gray	Standard	Tensile Strength: 7600 PSI Flexural Strength: 14000 PSI	Automotive Models Aerospace Models Medical Applications
FDM™ PC/ABS	Black	Standard	Tensile Strength: 5040 PSI Flexural Strength: 8600 PSI	Automotive Models Aerospace Models Telecommunication Applications
FDM™ ABSi	Translucent	Standard	Tensile Strength: 5400 PSI Flexural Strength: 8830 PSI	Flow Models - Medical Models Automotive Applications
FDM™ ABS-M30	White - Black - Red Dark Gray - Blue	Standard	Tensile Strength: 5200 PSI Flexural Strength: 8800 PSI	Concept Designs Functional Models Snap Fit Models Low Volume Production

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