

nexa3D®

# RESIN PORTFOLIO

SPEED. PERFORMANCE. DURABILITY.

 **CIMQUEST**

3D Printer Sales & Services

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[www.nexa3d.com](http://www.nexa3d.com)  
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# xABS-HT-Orange – Functional – injection molding molds

## UNIQUE FEATURES

- Fast Printing Speed
- Low Shrinkage
- Fully Functional Parts
- Stronger Durability
- ❖ Gauges & Fixtures
- ❖ Primed for Painting or Plating
- ❖ Finely Crafted Details

Mechanical Properties			
Measurement	Condition	Metric	Imperial
Tensile Strength	ASTM D638	80 MPa	11.5 ksi
Tensile Modulus	ASTM D638	3.2 GPa	461.4 ksi
Elongation at Break	ASTM D638	3.4%	
Flexural Strength	ASTM D790	135 MPa	19.6 ksi
Flexural Modulus	ASTM D790	3.25 GPa	471.4 ksi
Notched Izod Impact Strength	ASTM D256	20 J/m	0.33 ft-lb/in
HDT at 1.82 MPa   264 PSI	ASTM D648	120 °C	248 °F
Glass Transition	DMA, E"	128 °C	262 °F
Hardness	ASTM D2240	90	



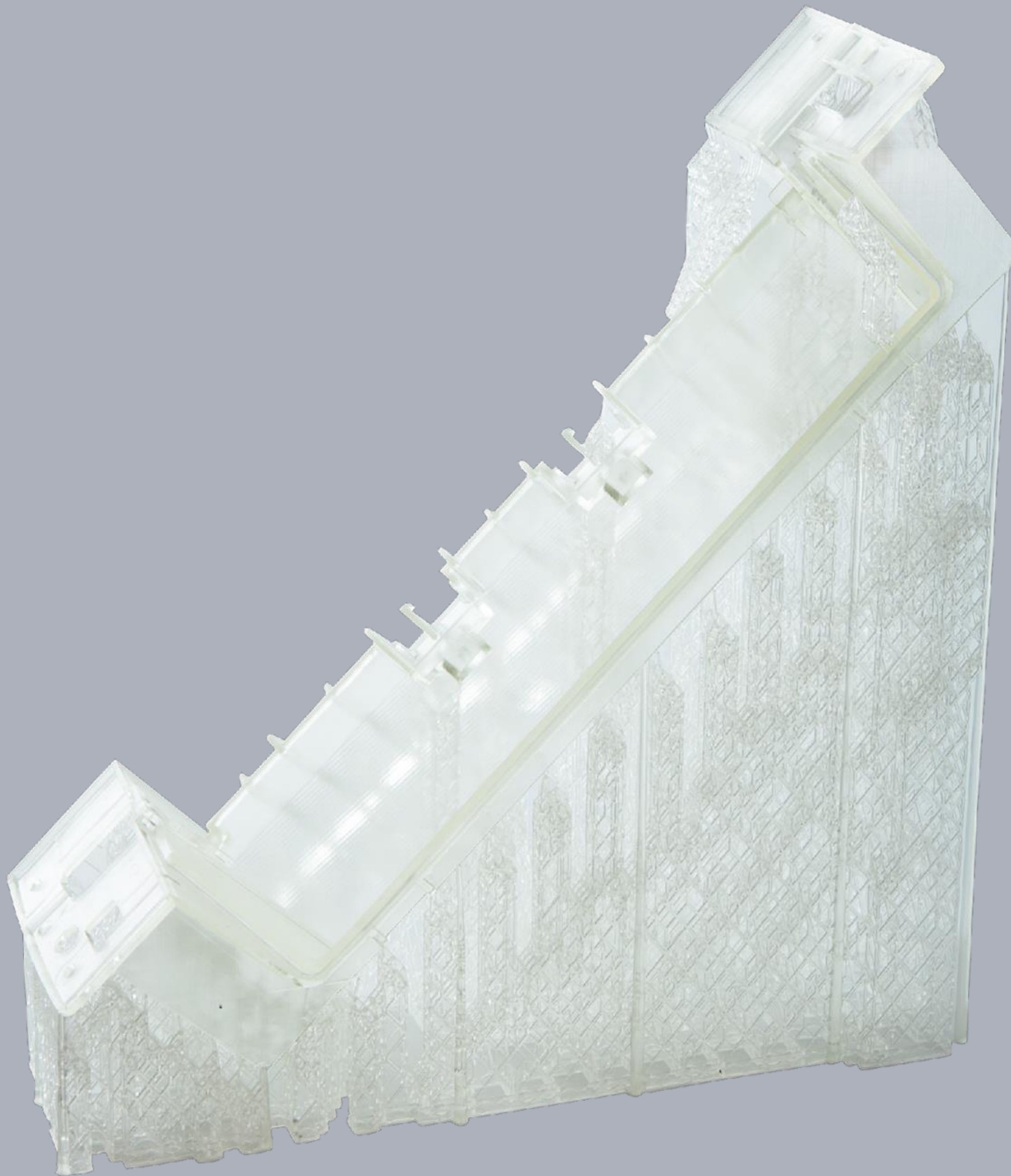


# xGPP-Translucent – TOUGH, ACCURATE, FAST

## UNIQUE FEATURES

- No Water Uptake
- Fast Printing Speed
- Low Shrinkage
- High Accuracy
  
- ❖ Performance Prototype
- ❖ Functional End Use Parts
- ❖ Air Ducts
- ❖ Fluid Flow Models
- ❖ Snap Fits

Mechanical Properties			
Measurement	Condition	Metric	Imperial
Tensile Strength	ASTM D638	60 MPa	8.6 ksi
Tensile Modulus	ASTM D638	2.3 GPa	332.8 ksi
Elongation at Break	ASTM D638	5.5%	
HDT at 0.45 MPa   66PSI	ASTM D648	61 °C	138 °F
HDT at 1.82 MPa   264 PSI	ASTM D648	51 °C	127 °F
Hardness	ASTM D2240	88	





# xGPP-Gray – High detail, Great surface finish

## UNIQUE FEATURES

- Great Surface Finish
- ❖ Rapid Iterations
- ❖ Form, Fit and Function Analysis
- ❖ Demonstration & Communication
- ❖ Topology Optimization Studies
- ❖ DfAM Analysis
- ❖ Gauges & Fixtures
- ❖ Primed for Painting or Plating
- ❖ Finely Crafted Details
- ❖ Injection Mold Quality & Precision
- ❖ Industrial Grade Durability & Assembly

Mechanical Properties			
Measurement	Condition	Metric	Imperial
Tensile Strength	ASTM D638	30 MPa	4.3 ksi
Tensile Modulus	ASTM D638	2.1 GPa	303.1 ksi
Elongation at Break	ASTM D638	2%	
HDT at 0.45 MPa   66PSI	ASTM D648	59 °C	138 °F
HDT at 1.82 MPa   264 PSI	ASTM D648	53 °C	127 °F
Glass Transition	DMA, E"	93 °C	199 °F
Hardness	ASTM D2240	84	





# xGPP- Blue – DRAFT - LIGHTNING SPEEDS

## UNIQUE FEATURES

- Fastest Printing Speed in its class
- Fully Functional Prototypes
- ❖ Rapid Iterations
- ❖ Form, Fit and Function Analysis
- ❖ Communication
- ❖ Topology Optimization Studies

Mechanical Properties			
Measurement	Condition	Metric	Imperial
Tensile Strength	ASTM D638	32.4 MPa	4.7 ksi
Tensile Modulus	ASTM D638	2.2 GPa	312.4 ksi
Elongation at Break	ASTM D638	3.2%	
HDT at 0.45 MPa   66PSI	ASTM D648	59 °C	138 °F
HDT at 1.82 MPa   264 PSI	ASTM D648	53 °C	127 °F
Glass Transition	DMA, E"	93 °C	199 °F
Hardness	ASTM D2240	80	







Thank you

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