



# Crestaform<sup>®</sup>

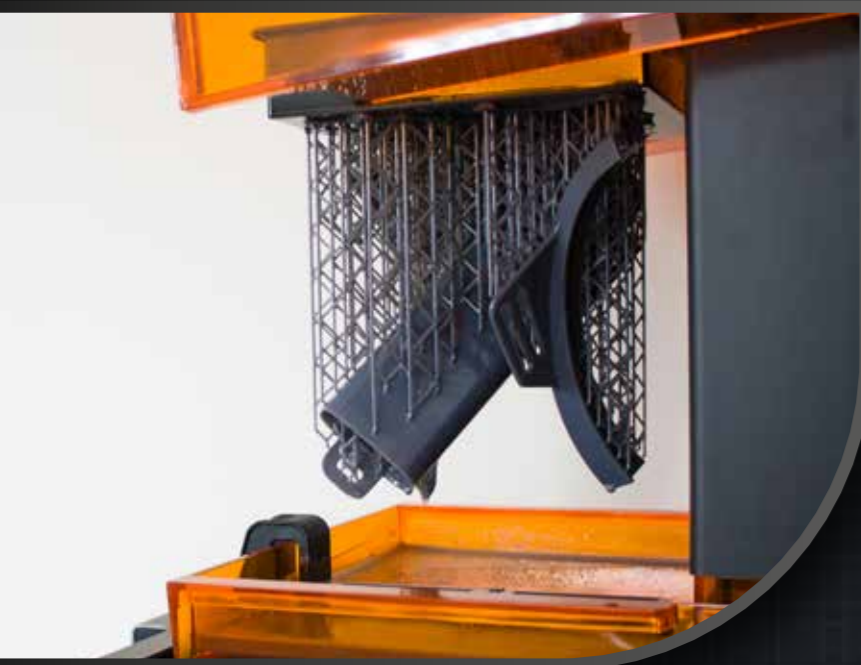
High performance 3D printing resins

A range of high performance 3D printing resins with superior mechanical performance and excellent reactivity.



# Crestaform®

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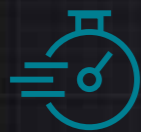
Using the highest quality 3D printing resins is a must if you want to stay at the cutting-edge of this fast-growing technology.

Scott Bader's Crestaform® 3D printing resins can be used in most stereolithography 3D printers and cured by UV light. The level and quality of detail that can be achieved is staggering when using Crestaform® resins to produce your 3D print. The opportunities truly are endless.

## Key benefits of Crestaform® 3D printing resins



Excellent mechanical performance



High reactivity and printing speed



Rigorous test regime for best in industry quality assurance



Global technical support available



Reputable manufacturer, 100 years of expertise

### Crestaform Tough

An engineering 3D printing resin for designing and prototyping. Strong, stiff and resilient for ABS-like materials. Lower crack propagation.

**Colour Options:** Blue and Grey

### Crestaform Rapid

A general purpose 3D printing resin for high resolution models and rapid prototyping. Fast, strong and precise with a smooth surface finish.

**Colour Options:** Black, Blue, Green, Grey, Red

### Crestaform Durable

A durable 3D printing resin for elastic prototyping. High impact resistance together with elasticity creates a perfect resin for applications where impact resistance is crucial. Increased fracture toughness.

**Colour Options:** Blue and Grey

## Typical printing parameters

When using Crestaform® at a layer height of 50µm and at a printing temperature of 23°C you can expect the following parameters:

LCD type	RGB UV LCD	Monochromatic UV LCD
Base layer exposure time	50-80 sec	30-60 sec
Normal layer exposure time	4-6 sec	1.5-2.5 sec

## Physical properties

	Tough	Rapid	Durable	Description
Viscosity (Poise)	7.0 - 9.0	1.2 - 2.0	7.0 - 9.0	ICI Viscosity at 25°C

## Mechanical properties

Parameter	Test method	Tough*	Rapid**	Durable*
Tensile strength (MPa)	ISO 527-2 Type 1A	64	45	43
Tensile modulus (GPa)		2.7	2.5	2.2
Tensile elongation (%)		19	3.2	99
Flex strength (MPa)	ISO 178	89	86	64
Flex modulus (GPa)		2.4	2.5	1.7
Shore D Hardness	ISO 868	85D	84D	75D
HDT°C	ISO 87-2 Method A (1.8MPa)	52	60	39

\*60 mins at 60°C + 405mm UV Post Cure for cured properties.

\*\*16 mins at 60°C + 405mm UV Post Cure for cured properties.



## Compatibility

The Crestaform® resin family has been designed to work with any UV LCD and DLP 3D printer that is open to 3rd party resins.



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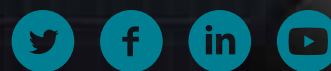
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