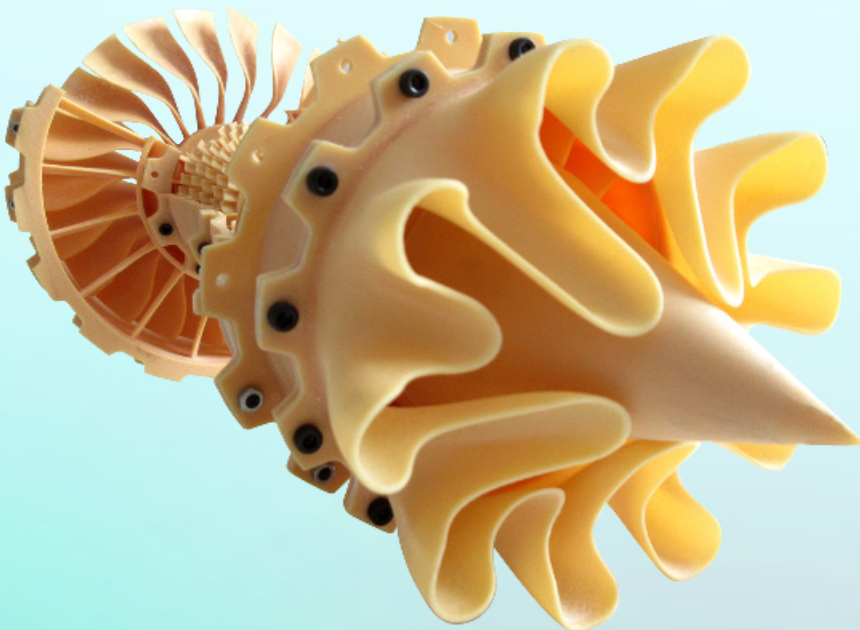




SPECIALISTS IN 3D POLYMER RESINS

# Day light Resin



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# DAYLIGHT RESINS

All grades are compatible with all Liquid Crystal printers



## Castable Daylight resin


Castable daylight resin is specially formulated to provide high definition moulds. It will leave almost no ash when burnt and create gas evenly as the temperature is increased, avoiding any pressure build up within the casting. It will capture all the details with a very dry surface to provide the ideal finish to your investment mould.

Colours. Amber

### SPECS

Hardness	★★★★★	77 Shore D
Tensile strength	★★★★★	42 MPa
Flexibility	★★★★★	Elongation at break 8.7%
Viscosity	230 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	6.6%	
Ash	< 0.03%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)




## Flexible Daylight resin

Flexible daylight polymers are ideal for making objects where you want flexibility, but still a hard object. Objects will compress and deflect enough to bend and return. They exhibit low tensile shear properties and some elongation. Objects can be bent and compressed with some force.

Colours. Amber, Green, Red, Cream, Grey, Black,

### SPECS

Hardness	★★★★★	85 Shore A
Tensile strength	★★★★★	4.9 MPa D
Flexibility	★★★★★	Elongation at break 75%
Viscosity	200 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	5.7%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638




## Firm Daylight resin


Firm daylight polymers are ideal for making objects where you want it to be very hard with slight compressive ability under high force. Objects will bend a little and stretch slightly when under duress. They exhibit good tensile shear properties with limited elongation. Objects can only be bent and compressed with considerable force.

Colours. Amber, Green, Red, Cream, Grey, Black,

### SPECS

Hardness	★★★★★	65 Shore D
Tensile strength	★★★★★	26 MPa
Flexibility	★★★★★	Elongation at break 14.9%
Viscosity	560 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	5.9%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638




## Hard Daylight resin


Hard daylight polymers are ideal for making objects where you want a very hard glass-like object with no compressive ability under high force. They exhibit some shrinkage and are fast curing. Objects will not bend or deflect when under duress. They exhibit very high tensile shear properties, high Vicat softening and almost no elongation.

Colours. Amber, Green, Red, Cream, Grey, Black,

### SPECS

Hardness	★★★★★	77 Shore D
Tensile strength	★★★★★	42 MPa
Flexibility	★★★★★	Elongation at break 8.7%
Viscosity	230 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	6.6%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638




## Low Shrinkage resin


Low shrink resin is specifically designed to give the lowest shrinkage resin chemically possible. It's very low shrinkage useful for making large parts or ones where dimensional accuracy is important. Objects will bend and deflect under pressure. It will capture all the detail required for fine resolution printing, is water and soap washable and will provide a dry surface finish after post exposure.

Colours. Grey

### SPECS

Hardness	★★★★★	65 Shore D
Tensile strength	★★★★★	25 MPa
Flexibility	★★★★★	Elongation at break 15.2%
Viscosity	350 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	4.4%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638




## High temperature resin


High Temp is a specially formulated resin that exhibits very high heat deflection temperatures and a high Vicat softening point. It creates strong rigid objects that will not bend or deflect at room temperature. It is particularly useful if you want the finished object to withstand working temperatures of up to 100C. It will capture all the detail required for fine resolution printing, is water and soap washable and will provide a dry surface finish after post exposure.

Colours. Grey

### SPECS

Hardness	★★★★★	75 Shore D
Tensile strength	★★★★★	49 MPa
Flexibility	★★★★★	Elongation at break 4.7%
Viscosity	550 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	5.1%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638




## High tensile


High tensile is a formulation that is optimised to give the highest readings that we can obtain on a tensile tester. It is designed for use where the strength of the part is paramount. It will capture all the detail required for fine resolution printing, is water and soap washable and will provide a dry surface finish after post exposure.

Colours. Grey

### SPECS

Hardness	★★★★★	85 Shore D
Tensile strength	★★★★★	61 MPa
Flexibility	★★★★★	Elongation at break 2.5%
Viscosity	400 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	5.9%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638




## Tough

Tough is an excellent compromise of properties for parts which you want to have functional ability. It is very hard, quite strong and very flexible, making it a perfect choice for when you want a tough plastic. It will capture all the detail required for fine resolution printing, is water and soap washable and will provide a dry surface finish after post exposure.

Colours. Grey

### SPECS

Hardness	★★★★★	70 Shore D
Tensile strength	★★★★★	20 MPa
Flexibility	★★★★★	Elongation at break 55%
Viscosity	500 cps 25°C Brookfield spindle 3	
Volumetric shrinkage	7.1%	

ASTM D638 (After post exposure)  
ASTM D638 (After post exposure)  
ASTM D638

