

## Material Information



### High-detail Resin White

#### Introduction

High-detail Resin White is a photosensitive resin material designed to print products that have intricate details. Combining with the accuracy of SLA 3D printing with a layer height of 0.05mm, and careful fine polishing, products printed with High-detail resin white have smooth surface finishing and good toughness. This material has a unique black in color.

#### Advantages

High-detail performance. Gives smooth surface and can be easily colored or painted. Has low water absorption rate makes it suitable for waterproof designs.

#### Disadvantages

A yellowish tone maybe noticeable when printing a solid and thick product.

#### Tolerance

±200µm or 0.2%

#### Recommendation

High-detail Resin White is ideal for regular applications such as looks-like prototypes, proof-of-concept models, art designs and figurines. Miniature hobbyists love it because it is ideal when showcasing details of a design, and it gives out a beautiful and smooth surface finishing that is ideal for almost all kinds of 3D Plus services.

Material Specifications		
Heat deformation (0.46 MPa)	ASTM D648M	58 °C
Heat deformation (1.82 MPa)	ASTM D648M	49.6 °C
Tensile strength	ASTM D638M	52.3 MPa
Tensile modulus	ASTM D638M	2600 MPa
Elongation at Break	ASTM D638M	11%
Flexural modulus	ASTM D790M	2400 MPa
Notched impact strength	ASTM D256A	45J/m
Water absorption	ASTM D570-98	0.26%

## Attention

Products printed with resin material will gradually turn yellow and brittle after long-term exposure to direct sunlight because of the nature of this material. If you want to prevent this, you may need to keep it away from direct sunlight or add 3D Plus services such as painting to block sunlight.

## Applications

3DSPRO find people using High-detail Resin White to make functional parts and prototypes in the following industries & applications.

### ***Artwork and toys:***

Sculptures, props, jewelries, lighting, miniatures, figurines, interior decorations, toys, dolls, etc.

### ***Consumer electronics appliances:***

Laptops, tablets, mobile phones, digital cameras, game consoles, MP3, mobile power bank.

### ***Electromechanical equipment:***

Industrial display panels, switches, sockets, power tools, electrical instruments, experimental instruments, measuring tools, etc.

### ***Home supplies:***

Air conditioner, air purifier, vacuum cleaner, electric fan, ironing machine, water dispenser, juicer, hair dryer, etc.