

## Material Information



### High-Detail Resin White

#### Introduction

High-Detail Resin White is a photosensitive resin material designed to print products that have intricate details. Combined 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.

#### Advantages

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

#### Disadvantages

A yellowish tone may be 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 finish 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   | 52.3MPa |
| Tensile Modulus             | ASTM D638M   | 2600MPa |
| Elongation at Break         | ASTM D638M   | 11%     |
| Flexural Modulus            | ASTM D790M   | 2400MPa |
| Notched Impact Strength     | ASTM D256A   | 45 J/m  |
| Water Absorption            | ASTM D570-98 | 0.26%   |

## Attention

Due to the characteristics of resin materials, products printed with resin materials will gradually turn yellow and become brittle after long-term exposure to direct sunlight. If you want to avoid this from happening, you may need to move it out of direct sunlight or add 3D Plus™ services (such as spray painting) to block out the sunlight.

## Applications

3DSPRO finds people using high-detail resin white to make functional parts and prototypes in the following industries and 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, and mobile power banks.

### *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.