

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. This material has a unique black.

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.