

# TH50 Nylon-like Resin Instruction

## 1. The Product Description

LITLIQ TH50 resin is a nylon-like resin with excellent elongation at break and impact strength. Its transparent blue appearance makes it easy to observe the interior of the printed part. It is an ideal choice for printing industrial parts and toy figures. It's easy to use and great for those new to 3d printing.

## 2. Material Properties Data

	METHOD	TH50
Viscosity (25℃)	ASTM:D4212-10	678mpa.s
Shore Hardness	ASTM:D2240-05	80-82D
Tensile Strength	ASTM: D638-14	44MPa
Flexural Strength	ASTM: D790-10	59MPa
Elongation at Break	ASTM: D638-14	47%
Notched IZOD	ASTM:D256-10	40J/m
HDT(0.455Mpa)	ASTM:D648-18	55℃

## 3. Printing

**Printing Settings:** You can download the resin printing parameters from RESIONE's official website. The detailed operations are as follows: RESIONE's official website —>Support —>Settings

## 4. Cleaning and Post-curing

**Cleaning:** Cleaning with the ethanol(concentration $\geq$ 95%), or IPA , the cleaning and soaking time shall not exceed 5min. . Please use compressed air to dry the prints after cleaning it.

**Post-curing:** If you use a post-curing box with a power of 40W, our recommended post-curing time is about 10mins (Adjust the post-curing time according to the power of the post-curing box, the greater the power, the shorter the time).



### Attentions:

a. If you want the toughness of the prints to be better, reduce the post-curing time; If you need

higher hardness of the prints, you need to increase the post-curing time, but this will also reduce the toughness of the prints.

b. The resin prints will be fragile after post-curing. It is not recommended to apply force to the prints immediately. Just need to wait for a while until the internal stress of the prints is completely released.

## **5. Storage of Prints**

a. Resin prints, like traditional plastics, become hard and brittle when the ambient temperature is low. The prints can maintain normal mechanical properties at 25-35°C.

b. If you need to keep the resin prints with good toughness for a long time, it is recommended to store them in an airtight bag or apply a layer of waterproof paint.

c. The prints should not be placed in a humid environment for a long time, otherwise they will absorb water and soften. Use an airtight bag or waterproof paint to protect your prints effectively.

For more questions, please contact [support@godsaid3d.com](mailto:support@godsaid3d.com)