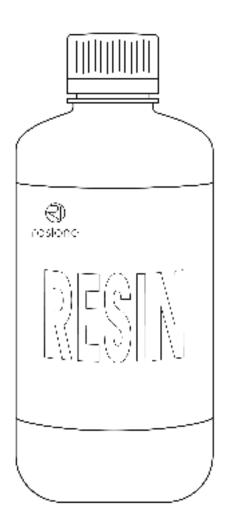# EC51 Fast ABS-Like Resin Instruction

1. The Product Description

LITLIQ EC51 is a standard rigid resin that offers ultra-fast printing and supports layers up to 0.2mm high. With conventional printers and modes, models up to 40mm in height can be printed in less than an hour. EC51 can realize the release process with low film removal force, and has good fault tolerance, effectively reducing possible faults. Therefore, it is the preferred material for novice users.

2. Material Properties Data

	METHOD	DATA
Viscosity(25℃)	ASTM:D4212-10	568mpa.s
Shore Hardness	ASTM:D2240-05	88-93D
Tensile Strength	ASTM: D638-14	42-54MPa
Flexural Strength	ASTM: D790-10	59-62MPa
Flexural Modulus	ASTM: D790-10	1.8-2.2GPa
Notched IZOD	ASTM:D256-10	10.31J/m
Elongation at Break	ASTM: D638-14	8-11%

3. Printing

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
You can use the ethanol(concentration≥95%), or IPA to clean, the cleaning and soaking time shall not exceed 10min. After cleaning, use compressed air to dry the prints

Post-curing
If you use a post-curing box with a power of 40W, our recommended post-curing time is about 15mins (The post-curing time shall be appropriately adjusted according to the power of the post-curing box.).

Attentions

a. If the post-curing irradiation time is too long, it will lead to the warping of the prints, and it hardens it and Fragile.

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.