

NO:220911 (Version 1.0)

# MOLEGRID™

## Ultradetail

A type of photocurable resin with fine details.



### Product color:

Brick red

### Description:

MOLEGRID™ Ultradetail is a LCD high precision photocurable resin, with low odor emission, high precision, heat resistant, high strength and other characteristics. This resin is suitable for various LCD equipment in the 405nm band. MOLEGRID™ Ultradetail is widely used in garage Kits, models, and designs that require high precision and detail. Especially suitable for studios and individual players.

### Recommended applications:

- Garage kits manufacturing
- Head statue carving
- Military model

### Characteristics:

- Detailed ability
- Matte texture
- Heat resistant

Liquid properties			
Appearance	Opaque	Density	1.10-1.20g/cm³@25°C
Resin Viscosity	450-600cps @25°C		
Mechanical properties		Post cured <sup>1</sup>	
ASTM Method	Properties Item	Metric Units <sup>2</sup>	Imperial Units <sup>2</sup>
D638	Tensile Strength	54.6MPa	7.9ksi
D638	Tensile Modulus	3051.6MPa	442.5ksi
D638	Elongation at break		8.3%
D790	Flexural Strength	101.6MPa	14.7ksi
D790	Flexural Modulus	2902.9MPa	420.9ksi
D256	Impact value	38.05J/m	0.71Ft-lb/in
D2240	Hardness (shore D)		80D
Thermal properties			
D648	Heat deflection temperature@0.45MPa (66psi)	77°C	170.6°F

<sup>1</sup>Date was measured after curing in a light energy density of 2-3mW/cm² ultraviolet curing box for 30 minutes.

<sup>2</sup>The material properties may vary with the structure of the printed part, printing direction, printing equipment, printing parameters and post-curing process.

