

NO:220911(Versión1.0)

MOLEGRID™

Basic

A type of universal, easy-to-shape and multiple colors resin.



Product color:

Transparent, Black, White, Gray,
Transparent green, Transparent blue,
TF blue.

Recommended applications:

Model production
Design verification
Cultural peripheral

Characteristics:

Colors diverse
High precision, Easy-to-shape
Balanced strength and toughness

Description:

MOLEGRID™ Basic is a type of universal LCD light-curing resin, with the features of low odor emission, rapid prototyping, high printing success rate, high precision, high strength after printed while still retaining a certain toughness. It is applicable for the LCD equipment in the 405nm band. MOLEGRID™ Basic is widely used in fields of model production, cultural related, art design, mold verification, etc. It is especially suitable for studios and individual users.

Liquid properties			
Appearance	Transparent or opaque	Density	1.10-1.20g/cm ³ @25°C
Resin Viscosity	300-400cps @25°C		
Mechanical properties		Post cured ¹	
ASTM Method	Properties Item	Metric Units ²	Imperial Units ²
D638	Tensile Strength	48.0MPa	7.0ksi
D638	Tensile Modulus	1640.0MPa	238.0ksi
D638	Elongation at break		10.0%
D790	Flexural Strength	68MPa	9.9ksi
D790	Flexural Modulus	2010MPa	292ksi
D256	Impact value	25.00J/m	0.46ft-lb/in
D2240	Hardness (shore D)		85D
Thermal properties			
D648	Heat deflection temperature@0.45MPa (66psi)	60.0°C	140.0°F

¹Date was measured after curing in a light energy density of 2.2mW/cm² ultraviolet curing box for 20 minutes.

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

