

# HATCHBOX<sup>®</sup> PHOTOPOLYMER RESIN

PRO

<p style="text-align: center;"><b>DESCRIPTION</b></p> <p>Resin Pro is a versatile LCD photopolymer resin with low odor, showing more details, industrial sense, and high precision. It exhibits high strength while retaining a certain level of toughness after molding. It is suitable for various LCD devices operating in the 405nm wavelength range.</p> <p>It is widely used in various fields such as model manufacturing, cultural merchandise, design, and mold validation. It is particularly suitable for studios and individual enthusiasts.</p>	<p style="text-align: center;"><b>CHARACTERISTICS</b></p> <p style="text-align: center;">Shows details / High precision / Easy molding / Matte texture</p> <hr style="width: 20%; margin: 10px auto;"/> <p style="text-align: center;"><b>APPLICATIONS</b></p> <p style="text-align: center;">Model manufacturing / Design Validation / Industrial Housings</p>
<p><b>COLORS</b></p> <p>Black / Blue / Clear / Dark Gray / Green / Light Gray / Purple / Red / Skin / White / Yellow</p>	

LIQUID PROPERTIES			
Appearance	Opaque	Density	1.10-1.20g/cm <sup>3</sup> @25°C
Resin Viscosity	150-250cps @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	40.0MPa	5.8ksi
D638	Tensile Modulus	2850MPa	413ksi
D638	Elongation at break		13%
D790	Flexural Strength	60MPa	8.7ksi
D790	Flexural Modulus	1850MPa	268ksi
D256	Impact value	25J/m	0.46ft-lb/in
D2240	Hardness (shore D)		85D
THERMAL PROPERTIES			
D648	Heat deflection temperature@0.45MPa ( 66psi )	59.8°C	139.6°F

1: Date was measured after curing in a light energy density of 10mW/cm<sup>2</sup>ultraviolet curing box (using the Linshang LS125 UV intensity meter, tested according to enterprise standards) for 10 minutes.

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