

CLEARCAST6080 KS168C



UV RESIN KS168C

- Fast to build and easy to finish
- Excellent humidity and moisture resistance
- Excellent processability
- High precision and toughness
- Good dimensional stability



MATERIAL OVERVIEW

KS168C is a new generation of stereolithography resin specially developed for the production of investment casting patterns after long-term innovation by Kings R&D team.

This transparent resin was created to improve the repeatability and quality of 3D-printed casting patterns. Patterns created with this SL material have higher precision and toughness, and have good dimensional stability. In addition, it has excellent processability, making it an ideal material for investment casting.

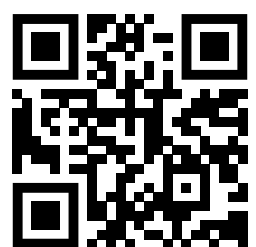
IDEAL APPLICATIONS

- Patterns for investment casting
- Transparent display models
- Conceptual prototypes
- Tough functional prototypes

TECHNICAL DATASHEET

LIQUID PROPERTIES		OPTICAL PROPERTIES	
Appearance	transparent	Dp	0.15-0.19 mm
Viscosity	340-470cps/24.5°C	Building layer thickness	0.15-0.19 mm
Density	1.095-1.11g/cm ³ @ 25 °C		

MECHANICAL PROPERTIES		UV POSTCURE
MEASUREMENT	TEST METHOD	VALUE
Hardness, Shore D	ASTM D 2240	80-84D
Flexural modulus, Mpa	ASTM D 790	1850-2550
Flexural strength, Mpa	ASTM D 790	50-69
Tensile modulus, MPa	ASTM D 638	1700-2380
Tensile strength, MPa	ASTM D 638	47-55
Elongation at break	ASTM D 638	4.2-9%
Impact strength, notched Izod, J/m	ASTM D 256	42-49
Heat deflection temperature, °C	ASTM D 648 @66PSI	48-60
Glass transition, Tg,°C	DMA,E"peak	60-70
Density, g/cm ³		1.156-1.157



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