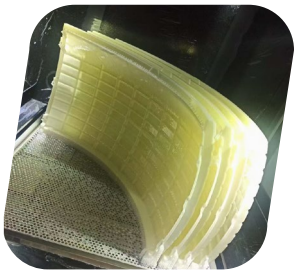
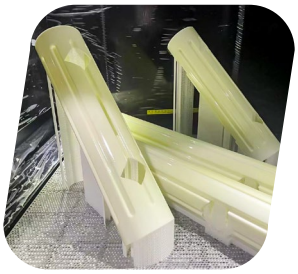
TECHNICAL DATA

KS06FR

Product Demonstration

Kings 3D Printing





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Kings 3D Printing

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Material Overview

KS06FR is an ABS like SLA resin which has fire-resistant, accurate and durable features. It is designed for solid state SLA platforms. KS06FR can be applied in master patterns, concept models, general parts and functional prototypes in the field of automotive, medical and consumer electronics industries.

Advantages

- Medium viscosity resin allows for easy recoating and cleaning
- Improved strength and dimensional stability in humid environments
- Requires minimal finishing and post-curing time
- Excellent machinability and low shrinkage
- V0-level flame retardant with good yellowing resistance

Ideal Applications

- Functional prototypes
- Flame-retardant end-use parts
- Precision industrial components
- SLA parts requiring high strength and detail
- Components used in humid or demanding environments

Technical Datasheet

Physical Properties — Liquid Material			
Appearance	Greenyellow	Dp	0.135-0.155 mm
Density	1.2-1.24g/cm^3 @ 25 ℃	Ec	9-12 mJ/cm^2
Viscosity	450-500 cps @ 25 ℃	Building layer thickness	0.05-0.12mm

Mechanical Properties of Post-Cured Material		
MEASUREMENT	TEST METHOD	VALUE (UV curing and thermocuring)
Hardness, Shore D	ASTM D 2240	76-82
Flexural modulus, Mpa	ASTM D 790	2,650-2,750
Flexural strength, Mpa	ASTM D 790	80- 90
Tensile modulus, MPa	ASTM D 638	2,150-2,370
Tensile strength, MPa	ASTM D 638	33-38
Elongation at break	ASTM D 638	12 -18%
Impact strength, notched Izod, J/m	ASTM D 256	58 - 70
Heat deflection temperature, ℃	ASTM D 648 @66PSI	48-52
Glass transition, Tg , ℃	DMA, E"peak	50-54
Density, g/cm^3		1.25-1.3

Note: The temperature for KS06FR resin processing and storage should be lower than 28℃, and the temperature recommended is 22℃ - 28℃.

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