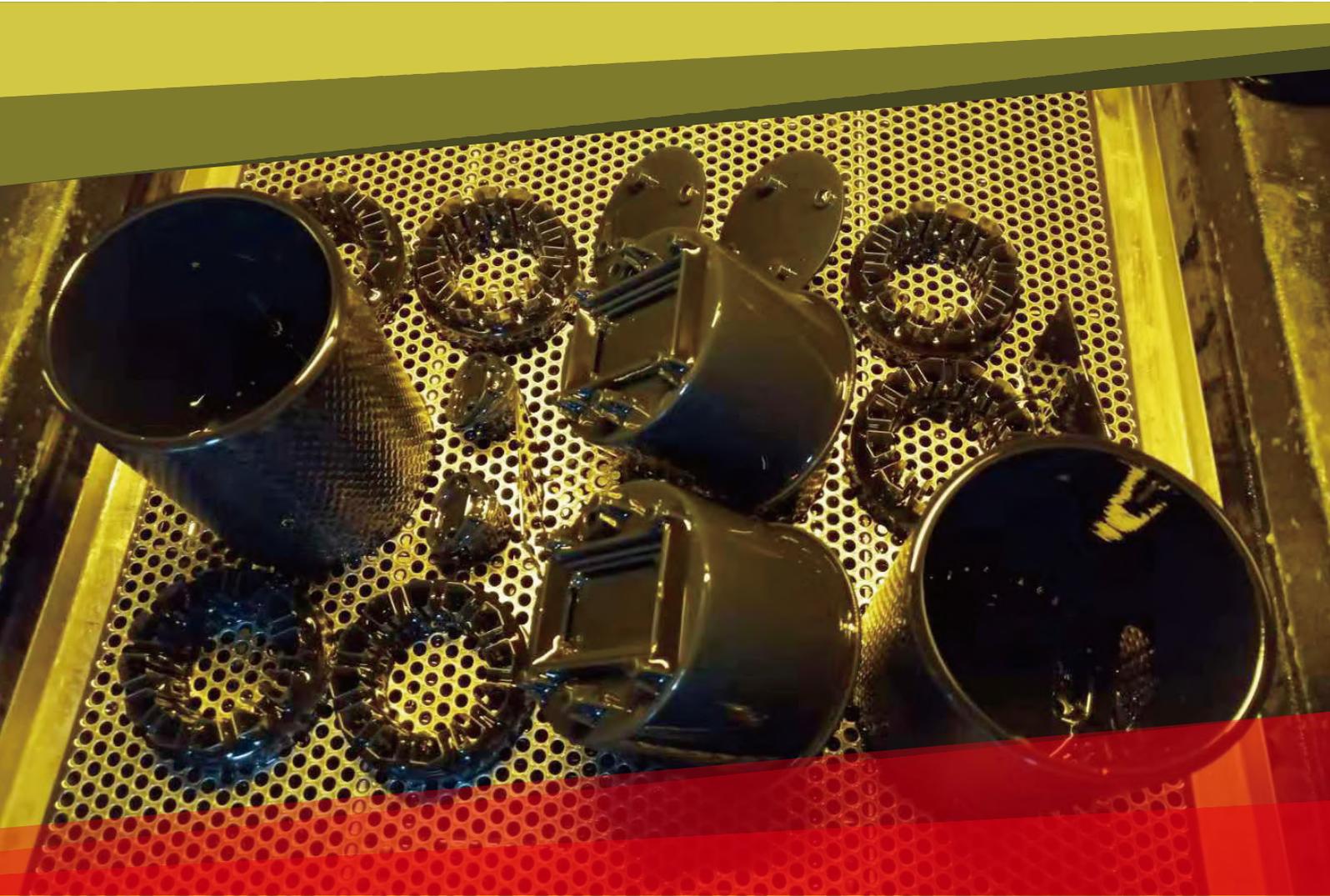


TECHNICAL DATA



# KS808-BK

TECHNICAL DATA SHEET



Shenzhen Kings 3D Printing Technology Co., Lt

Floor 14-15, Building 3-A, Yunzhi Science Park, Gongming Street, Guangming District, Shenzhen | China 518107

Jiangxi Kings 3D AM Tech Co., Ltd

Xiabu Town, Xiangdong District, Pingxiang City, Jiangxi Province | China 337022



## Material Overview

KS808-BK ABS-like resin is a versatile charcoal black SL resin with high precision outstanding machinability and excellent durability. It provides long-term environmental stability with good impact strength, elongation, and tensile strength. This material is recommended for making conceptual models, master patterns, and functional parts in the shoe, automotive, medical, consumer electronics, etc industries.

## Advantages

- Medium viscosity ensures easier re-coating and cleaning of parts and machines
- Better strength and dimensional retention properties in wet environments –Long shelf life in the machine
- Excellent surface quality, accuracy, repeatability
- Need less part-finishing time, easier post-curing
- The charcoal black color offers low shrink and good resistance to yellowing

## Ideal Applications

- Vacuum casting prototypes
- Functional models need to be tough
- Conceptual models
- Low-volume production models
- Shoe, automotive, medical, consumer electronics, etc applications

## Physical Properties – Liquid Material

Appearance	Charcoal black
Density	1.12–1.14g/cm <sup>3</sup> @ 25 °C
Viscosity	350–505 cps @ 25 °C
Dp	0.135–0.155 mm
Ec	9–12 mJ/cm <sup>2</sup>
Building layer thickness	0.05–0.12mm

## Mechanical Properties of Post-Cured Material

MEASUREMENT	TEST METHOD	VALUE
		90-minute UV post-cure
Hardness, Shore D	ASTM D 2240	75–85
Flexural modulus, Mpa	ASTM D 790	2,650–2,750
Flexural strength, Mpa	ASTM D 790	60– 75
Tensile modulus, Mpa	ASTM D 638	2,150–2,370
Tensile strength, Mpa	ASTM D 638	25–30
Elongation at break	ASTM D 638	12 –20%
Impact strength, notched Izod, J/m	ASTM D 256	48 – 60
Heat deflection temperature, °C	ASTM D 648 @66PSI	58–70
Glass transition, Tg, °C	DMA, E”peak	62–75
Density, g/cm <sup>3</sup>		1.12–1.14

Note: The temperature for KS808-BK resin processing and storage should be lower than 25°C, and the temperature recommended is 18°C – 25°C.

Web: [www.kings3dprinter.com](http://www.kings3dprinter.com)

Email: [Info@kings3dprinter.com](mailto:Info@kings3dprinter.com)

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