TECHNICAL DATA

KS408A

Product Demonstration

Kings 3D Printing

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Material Overview

KS408A is the most popular SLA resin for accurate, detailed parts, perfect for testing model designs to ensure proper structure and function before full production. It produces white ABS like parts with accurate, durable and moisture resistant features. It's ideal for prototyping and functional testing, saving time, money and material during product development.

Advantages

- Highly accurate and strong toughness
- Highly durable
- Fine surface texture
- Good moisture resistance
- Easy to clean and finish

Ideal Applications

- Functional prototypes
- Concept models
- Low volume production models
- Automotive, aerospace, architecture, electronic applications

Technical Datasheet

Liquid Properties		Optical Properties	
Appearance	Opaque White	Dp	0.135–0.155 mm
Viscosity	355–455 cps @ 28 ℃	Ec	9–12 mJ/cm^2
Density	1.11–1.14g/cm^3 @ 25 ℃	Building layer thickness	0.05–0.15mm

Mechanical Properties		UV Postcure
MEASUREMENT	TEST METHOD	VALUE
Hardness, Shore D	ASTM D 2240	76–82
Flexural modulus, Mpa	ASTM D 790	2,690–2,775
Flexural strength, Mpa	ASTM D 790	68– 75
Tensile modulus, MPa	ASTM D 638	2,180–2,395
Tensile strength, MPa	ASTM D 638	27–31
Elongation at break	ASTM D 638	12 –20%
Impact strength, notched Izod, J/m	ASTM D 256	58 – 70
Heat deflection temperature, ℃	ASTM D 648 @66PSI	55–65
Glass transition, Tg, ℃	DMA, E"peak	55–70
Density, g/cm3		1.14–1.16

Recommended temperature for processing and storage of the above resin should be 18℃–25℃.

The above data are based on our current knowledge and experience, the values of which may vary and depend on individual machine processing and post–curing practices. The safety data given in above is for information purposes only and does not constitute a legally binding MSDS. The relevant MSDS can be obtained upon request from yoursupplier or you may contact Kings 3D directly at "info@kings3dprinter.com"

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