# TECHNICAL DATA
# KS1208H
Product Demonstration
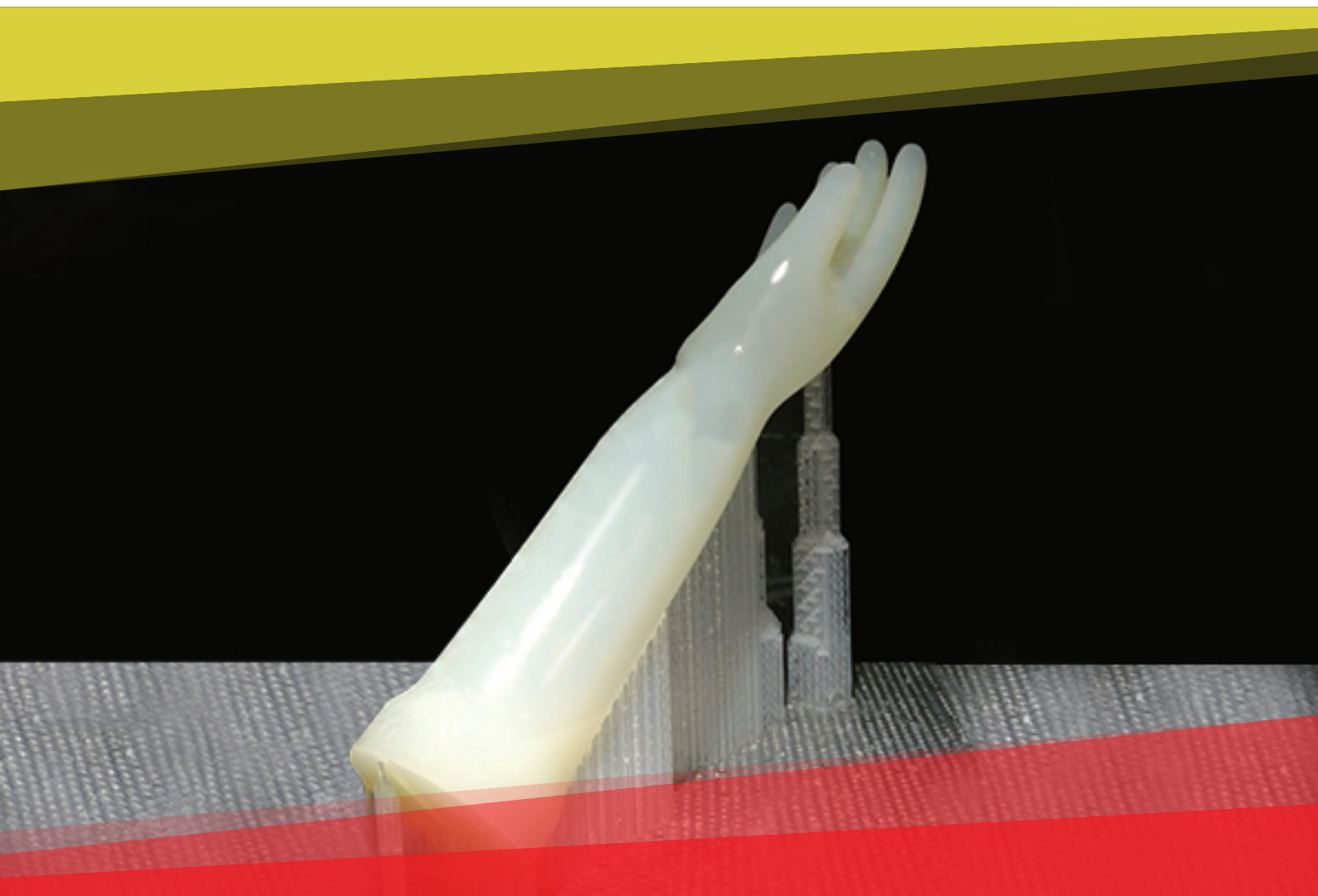
Kings
3D Printing

# Material Overview

KS1208H is a high temp resistant SLA resin with low–viscosity in semitranslucent color. The part can be used with a temperature around 120℃. For instantaneous temperature it is resitant to above 200℃. It has good dimensional stability and fine surface details, which is perface solution for parts requiring resistance to heat and humidity, and it's also applicable for quick mold with certain material in small batch production.

## Advantages

– High temperature resistance

– Excellent dimensional stability

– High strength and accuracy

## Ideal Applications

– Prototypes need high–temp resistance

– Quick mold

# Technical Datasheet

| Liquid Properties | | Optical Properties | | |
|---|---|---|---|---|
| Appearance | Semi–translucent | Dp | 0.115 mm | [slope of cure–depth vs. ln (E) curve] |
| Viscosity | 340 cps @ 28 ℃ | Ec | 13.5 mJ/cm$^2$ | [critical exposure] |
| Density | 1.14g/cm³ @ 25 ℃ | Building layer thickness | 0.08–0.12mm | 0.08–0.12mm |

| Mechanical Properties | | | UV Postcure | |
|---|---|---|---|---|
| TEST ITEMS | TEST METHOD | NUMERICAL VALUE | TEST METHODS | NUMERICAL VALUE |
| Tensile Strength | ASTM D 638 | 65MPa | GB/T1040.1–2006 | 71MPa |
| Elongation at break | ASTM D 638 | 3–5% | GB/T1040.1–2006 | 3–5% |
| Bending strength | ASTM D 790 | 110MPa | GB/ T9341–2008 | 115MPa |
| Flexural modulus | ASTM D 790 | 2720MPa | GB/ T9341–2008 | 2850MPa |
| Izod notched impact strength | ASTM D 256 | 20J/m | GB/T1843–2008 | 25J/m |
| Shore hardness | ASTM D 2240 | 87D | GB/T2411–2008 | 87D |
| Glass transition temperature | DMA, tan θ peak | 135℃ | 58 – 70 | 58 – 70 |
| Thermal expansion coefficient（25–50℃） | ASTME831–05 | 50 μ m/m℃ | GB/T1036–89 | 50 μ m/m℃ |
| Thermal expansion coefficient（50–100℃） | ASTME831–05 | 150 μ m/m℃ | GB/T1036–89 | 160 μ m/m℃ |

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"