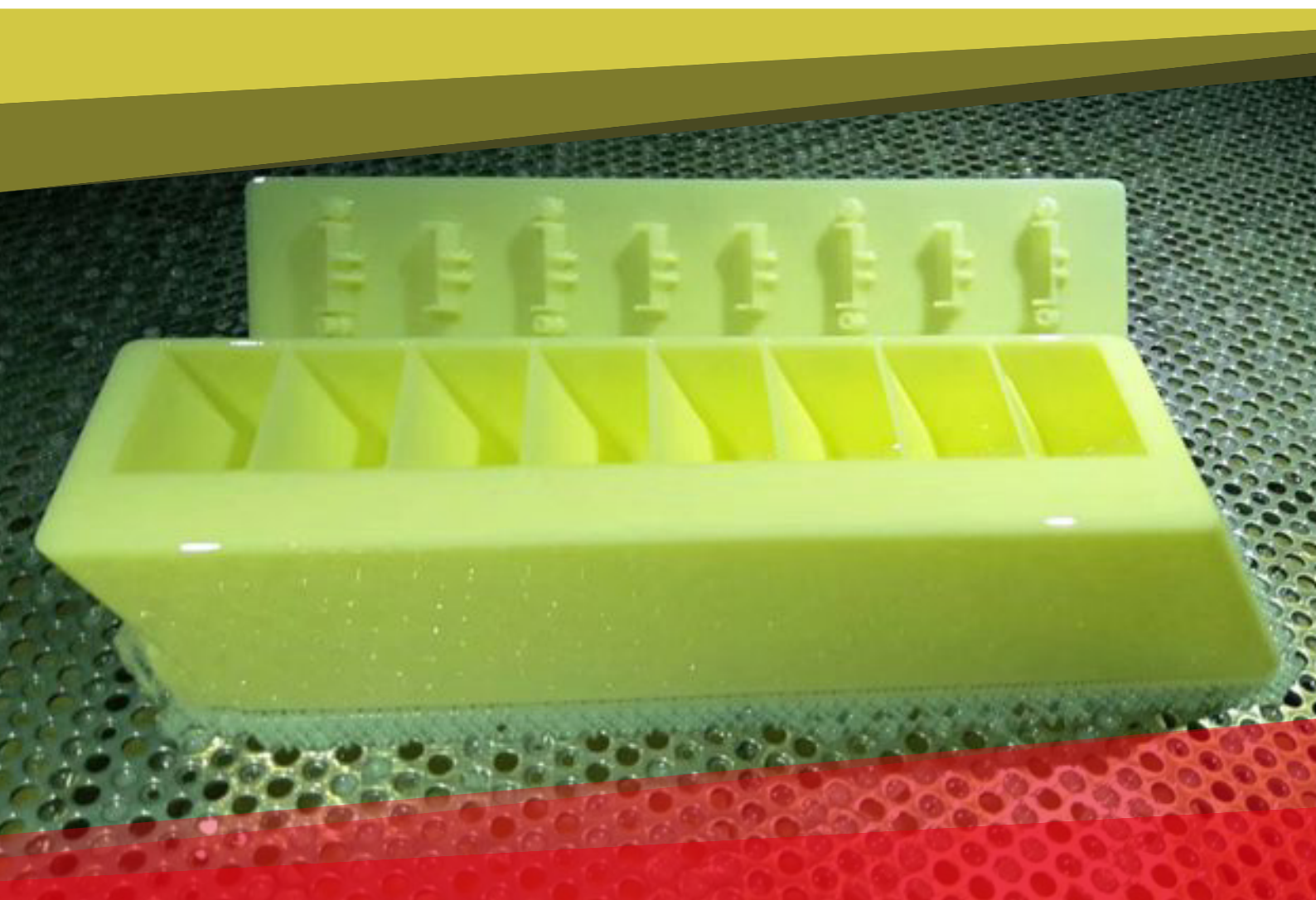


TECHNICAL DATA

# KS85HT

Product Demonstration



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*Kings*  
3D Printing

## ■ Material Overview

KS85HT is an ABS-like stereolithography resin with precise and high temperature resistance. It is used in SLA stereolithography 3D printing technology. It is gorgeous green appearance, medium viscosity, easier to coat and clean.

## ■ Advantages

- Fast printing speed
- Excellent high temperature resistance and durability
- Excellent processability and toughness
- Only minimal component modification is required

## ■ Ideal Applications

- Dental, toys, molds, automotive, aerospace, concept models, general parts

## ■ Technical Datasheet

### Physical Properties – Liquid Material

|            |                                  |                          |                        |
|------------|----------------------------------|--------------------------|------------------------|
| Appearance | Green                            | Dp                       | 0.135–0.155mm          |
| Viscosity  | 360–400cps@25°C                  | Building layer thickness | 0.05–0.12mm            |
| Density    | 1.11–1.14g/cm <sup>3</sup> @25°C | Ec                       | 9–12mJ/cm <sup>2</sup> |

### Mechanical Properties

### UV Postcure

| MEASUREMENT                        | TEST METHOD       | VALUE       |
|------------------------------------|-------------------|-------------|
| Hardness, Shore D                  | ASTM D 2240       | 78–82       |
| 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        | 12–17%      |
| Impact strength, notched Izod, J/m | ASTM D 256        | 55–65       |
| Heat deflection temperature, °C    | ASTM D 648 @66PSI | 75–85       |
| Glass transition, Tg, °C           | DMA, E"peak       | 74–80       |
| Density, g/cm <sup>3</sup>         |                   | 1.14–1.16   |

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