
KS408

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

KS408 is an ABS like SL resin which has accurate and durable features. It is designed for solid state SLA platforms. KS408 can be applied in master patterns, concept models, general parts and functional prototypes in the field of automotive, medical and consumer electronics industries. The parts durability building with KS408 is over 6.5months.

TYPICAL FEATURES

- The medium viscosity of the liquid resin makes the re-coating as well as the machine and parts cleaning easier
- Improved strength and dimension retention in humid condition
- Need minimal part finishing
- Long shelf life in machine

TYPICAL BENEFITS

- Need less part finishing time, easier post-curing
- Building accurate and high tough parts with an improved dimensional stability
- High quality controls for vacuum casting parts
- Low shrink and good resistance to yellowing
- Magnificent white color
- Outstanding machinable SLA material

Physical Properties – Liquid Material

| | |
|--------------------------|-------------------------------|
| Appearance | White |
| Density | 1.13g/cm ³ @ 25 °C |
| Viscosity | 355 cps @ 28 °C |
| Dp | 0.145 mm |
| Ec | 9.3 mJ/cm ² |
| Building layer thickness | 0.1mm |

Mechanical Properties of Post-Cured Material

| MEASUREMENT | TEST METHOD | VALUE |
|--|-------------------|---------------------------|
| | | 90-minute UV post-cure 90 |
| Hardness, Shore D | ASTM D 2240 | 83 |
| Flexural modulus, Mpa | ASTM D 790 | 2,692-2,775 |
| Flexural strength, Mpa | ASTM D 790 | 69- 74 |
| Tensile modulus, MPa | ASTM D 638 | 2,189-2,395 |
| 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, °C | ASTM D 648 @66PSI | 52 |
| Glass transition, Tg °C | DMA, E” peak | 62 |
| Coefficient of thermal expansion, , /°C | TMA(T<Tg) | 97*E-6 |
| Density, g/cm ³ | | 1.16 |

Note: The temperature for KS408 resin processing and storage should be lower than 25°C, and the temperature recommended is 18°C - 25°C.