



## CHL-A-21: High Accuracy&Speed

### Technical Data Sheet

扫码联系

产品经理:



## General Information

Nagase's IAG-A-21 is specially formulated UV resin for large-scale 3D printer of SLA type.

It contains acrylic&epoxy materials and shows high accuracy and speed. Because CHL-A-21 needs shorter time for stabilizing liquid surface, printing time can be reduced by more than a half.

## Application

Prototyping  
Aligner mold etc.

## Typical Packaging

18.5kg in 20L grey poly bottle

## Technical DATA

| Liquid Properties |                        | Optical Properties         |                          |
|-------------------|------------------------|----------------------------|--------------------------|
| Materials         | Acrylic&Epoxy resin    | Dp                         | 7.5mils (0.19mm)         |
| Color             | pink                   | Ec                         | 14.6 mJ/cm <sup>2</sup>  |
| Viscosity         | 140 mPa·s (30℃)        | Recommended Exposed Energy | *30.0 mJ/cm <sup>2</sup> |
| Density           | 1.10 g/cm <sup>3</sup> |                            |                          |

\*300mW/cm2, Spacing Line=0.08mm

| Physical Properties       |           |           |
|---------------------------|-----------|-----------|
| Properties                | Method    | Postcured |
| Hardness                  |           | Shore D80 |
| Ultimate Tensile Strength | ASTM D638 | 48 MPa    |
| Elongation at Break       | ASTM D638 | 3%        |
| Tensile Modulus           | ASTM D638 | 1.2 Gpa   |
| IZOD Impact (Notched)     | ASTM D256 | 29 J/m    |
| Tg                        | DMA       | 109℃      |
| HDT(0.45 MPa)             | ASTM D648 | 47℃       |

**NOTES-** Results in this data sheet may vary and depend on individual machine processing and post-curing conditions.

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