

# KZ-1850-CL

## ABS Resin

Solid State  
355 nm Lasers

### Description:

Allied PhotoPolymers KZ-1850-CL is a rigid ABS like, tough, water resistant, clear resin for 355 nm Solid State Laser Systems.

KZ-1850-CL is optically clear and will allow the user to benefit from the These build characteristics. This material can be offered in a variety of colors

### Applications:

RTV Patterns  
Water flow studies  
Small feature connectors

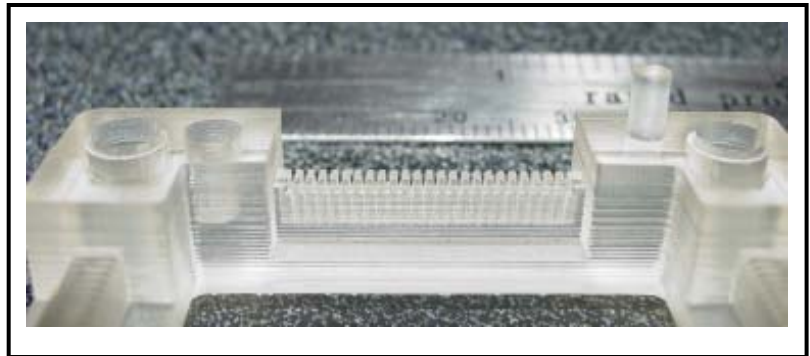
Quickcast  
Concept Models

### Characteristics:

- ✓ Cleans with Alcohol
- ✓ Excellent finishing
- ✓ Fast building
- ✓ Very low viscosity
- ✓ Water resistant
- ✓ High green strength
- ✓ Excellent re-wetting
- ✓ Supports break clean
- ✓ Clear
- ✓ Offered in variety of pigmented colors

### PHYSICAL PROPERTIES

| DESCRIPTION            | UNITS              | VALUE |
|------------------------|--------------------|-------|
| Viscosity              | cps                | 125   |
| Appearance             | Clear              | n/a   |
| Critical Exposure (Ec) | mj/cm <sup>2</sup> | 6.7   |
| Penetration Depth (Dp) | mils               | 4.6   |



### MECHANICAL PROPERTIES

| MEASUREMENT                     | ASTM METHOD   | UNITS           | VALUE      |
|---------------------------------|---------------|-----------------|------------|
| Tensile Strength                | ASTM D638     | Mpa             | 54.2       |
| Tensil Modulus                  | ASTM D638     | MPa             | 2,380      |
| Elongation At Break             | ASTM D638     | %               | 14.7       |
| Flexural Strength               | ASTM D790     | MPa             | 75.8       |
| Flexural Modulus                | ASTM D790     | MPa             | 2,000      |
| Impact Strength<br>Notched Izod | ASTM D256     | J/m<br>ft-lb/in | 22<br>0.41 |
| Hardness                        | ASTM D2240    | Shore D         | 78         |
| Glass Transition                | ASTM D3418-03 | °C              | 58         |
| Heat Deflection @ 66 psi        | ASTM D648     | °C              | 50         |
| Heat Deflection @ 264 psi       | ASTM D648     | °C              | 44         |



**Owned and  
Manufactured  
In USA**