

# KZ-1890-CAST

Highly Accurate Resin for Solid State 355 nm Lasers

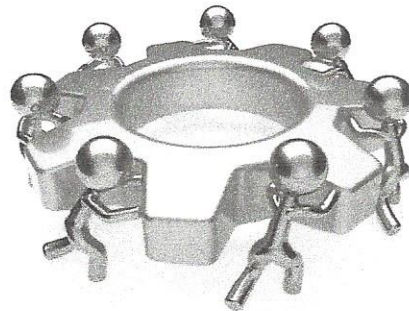
## Description:

Allied PhotoPolymers KZ-1890-CAST is a high resolution, castable photopolymer with outstanding surface finish and detail resolution. It has terrific burnout characteristics with very low ash content. It is ideal for direct investment casting, quickcast applications and detailed prototypes.

## Characteristics:

- Low viscosity
- Quality finishing
- Fast building
- Superb green strength
- Excellent re-wetting
- Supports break clean
- Excellent viscosity stability
- Specialty application

PHYSICAL PROPERTIES		
DESCRIPTION	UNITS	VALUE
Viscosity	Cps	200 - 280
Appearance	Green Liquid	na
Critical Exposure (Ec)	mJ/cm <sup>2</sup>	
Penetration Depth (Dp)	mils	
Liquid Density	g/cm <sup>3</sup>	1.12
Cured Density	g/cm <sup>3</sup>	1.16



MECHANICAL PROPERTIES*			
MEASUREMENT	ASTM METHOD	UNITS	VALUE
Tensile Strength	ASTM D638	MPa	51
		ksi	7.5
Tensile Modulus	ASTM D638	MPa	2650
		ksi	387
Elongation at Break	ASTM D638	%	6 to 8
Flexural Strength	ASTM D790	MPa	82
		ksi	12
Flexural Modulus	ASTM D790	MPa	1930
		ksi	280
Impact Strength Notched Izod	ASTM D256	J/m ft-Lb/in	19 0.4
Hardness	ASTM D2240	Shore D	83
Heat Deflection @ 264 psi	ASTM D648	°C	50
		°F	122
Heat Deflection @ 66 psi	ASTM D648	°C	53
		°F	127

\* For UV post-cured parts