

KZ-1862-ICE

Highly Accurate ABS Like Resin

Solid State
355 nm Lasers

Description:

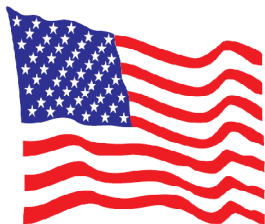
Allied PhotoPolymers KZ-1862-ICE is a tough clear ABS like, dimensionally stable resin for 355 nm Solid State Laser Systems. It is ideal for quickcast applications as well as general purpose and dimensionally challenging builds. Superior humidity resistance and exceptional shrink characteristics are major differentiators.

Applications:

Prototype Tooling
Quickcast
Small Feature Connectors
Lenses
RTV Patterns
Concept Models
Medical Applications
Flow analysis

Characteristics:

- ✓ Quality finishing
- ✓ Fast building
- ✓ Low viscosity
- ✓ Water resistant
- ✓ Superb green strength
- ✓ Excellent re-wetting
- ✓ Supports break clean
- ✓ Optically Clear
- ✓ Excellent viscosity stability
- ✓ Superior dimensional stability over time
- ✓ Superior thermal stability over time
- ✓ Passed ISO 10993 Bio-Compatibility / Toxicity Testing



**Owned and
Manufactured
In USA**

PHYSICAL PROPERTIES

DESCRIPTION	UNITS	VALUE
Viscosity	Cps	270
Appearance	Optically Clear	na
Critical Exposure (Ec)	mj/cm ²	11.2
Penetration Depth (Dp)	mils	6.6
Liquid Density	g/cm ³	1.12



MECHANICAL PROPERTIES

MEASUREMENT	ASTM METHOD	UNITS	VALUE
Tensile Strength	ASTM D638	MPa ksi	52 7.54
Tensile Modulus	ASTM D638	MPa ksi	2500 363
Elongation at Break	ASTM D638	%	6 to 10
Flexural Strength	ASTM D790	MPa ksi	82 11.9
Flexural Modulus	ASTM D790	MPa ksi	2000 290
Impact Strength Notched Izod	ASTM D256	J/m ft-Lb/in	21.4 0.4
Hardness	ASTM D2240	Shore D	83
Heat Deflection 264 psi	ASTM D648	°C °F	50 122
Heat Deflection 66 psi	ASTM D648	°C °F	55 131
Water Absorption	ASTM D570-98	% weight	0.23

