

Tackle a wider variety of applications with this multi-purpose resin.

# SL 7510 RESIN

## For the SLA™ 5000 system

Originally formulated for our SLA 7000 top-of-the-line solid imaging system, CIBATOOL® SL 7510's fast build speed and excellent durability helps you get greater productivity—and more versatility—from your SLA 5000 system.

**BUILD MORE PARTS IN LESS TIME.** Over a range of build styles, SL 7510 builds parts an average of 30% faster than other SLA 5000 system resins. Realize huge performance gains in the QuickCast™ build style: SL 7510 builds QuickCast style masters at least 50% faster compared to SL 5510, and at least 20% faster compared to SL 5195.

**USE IN COMBINATION WITH 3D LIGHTYEAR™ SOFTWARE FOR TRULY ROBUST MODELS.** Using 3D Lightyear software's EXACT buildstyle, SL 7510 yields models with superior detail, and with a smooth (0.003 in layer thickness\*) surface finish that requires minimal post-processing. 3D Lightyear preparation software is included with all new SLA Series solid imaging systems, and most current SLA customers are eligible for a free copy.



**GET MORE.** With SL 7510 you'll build durable, humidity-resistant parts that stand up to the rigors of handling, finishing, demolding, and limited snap-fit testing. Trim time and cost at every stage of the product development cycle.

## Use SL 7510 on your SLA 5000 system for:

- FASTER QUICKCAST BUILD STYLE PATTERNS
- FAST AND ROBUST PROTOTYPE MODELS AND PATTERNS
- DURABLE SILICONE MASTER PATTERNS
- LIMITED SNAP-FIT TESTING
- INTERNAL STRUCTURE VISUALIZATION
- CONCEPT MODELS
- FORM/FIT/FUNCTION VERIFICATION

\*Dependent upon part geometry and build parameters.

## Benefits:

- HIGH PRODUCTIVITY
- EXCELLENT DURABILITY
- HUMIDITY-RESISTANT
- ACCURATE

# SL 7510 Typical Properties

for SLA 5000 systems



## Liquid Resin

MEASUREMENT	CONDITION	VALUE
Appearance		Clear Amber
Density	@ 25° C (77° F)	1.17
Viscosity	@ 25° C (77° F)	410 cps
Penetration depth (Dp)		5.5 mils
Critical exposure (Ec)		10.9 mj/cm <sup>2</sup>
Part building layer thickness*		0.050 mm (0.002 in) 0.075 mm (0.003 in) 0.15 mm (0.006 in)

## Post-Cured Resin

MEASUREMENT	CONDITION	VALUE
Tensile strength	ASTM D 638	44 MPa (6,500 PSI)
Tensile modulus	ASTM D 638	2206 MPa (320,000 PSI)
Elongation at break	ASTM D 638	13.7%
Flexural strength	ASTM D 790	82 MPa (11,900 PSI)
Flexural modulus	ASTM D 790	2455 MPa (356,000 PSI)
Impact strength, notched	ASTM D 256	32.0 J/m (0.6 ft-lbs/in)
Hardness, Shore D	DIN 53505	87
Glass transition, Tg	DMA, E* peak (UV Post-cured) DMA, E* peak (UV + 2 hrs @ 80° C) DMA, Tan Delta (UV Post-cured) DMA, Tan Delta (UV + 2 hrs @ 80° C)	63° C (145° F) 58° C (136° F) 118° C (244° F) 149° C (300° F)
Heat deflection temperature	ASTM D 648 @ 66 PSI (UV Post-cured) @ 66 PSI (UV + 2 hrs @ 80° C) @ 264 PSI (UV Post-cured) @ 264 PSI (UV + 2 hrs @ 80° C)	51° C (124° F) 81° C (178° F) 47° C (117° F) 66° C (151° F)

\*Dependent upon part geometry and build parameters.  
Specifications are subject to change without notice.



Like all our stereolithography materials, SL 7510 is developed and manufactured by Ciba Specialty Chemicals, Performance Polymers Division, for exclusive distribution by 3D Systems. Ciba and 3D Systems collaborate continually to develop faster, more durable, and more accurate materials for all our SLA solid imaging systems, and for your solid imaging applications.

FOR MORE INFORMATION OR TO ORDER, CONTACT  
3D SYSTEMS TOLL-FREE AT 1.888.337.9786.

### RESIN UPGRADE PROGRAM

Upgrade your existing resin and take advantage of a substantial discount off the regular purchase price with 3D Systems Resin Upgrade Program. To place an order, call 1.800.889.2964. To obtain additional information, contact your local 3D Systems representative, or call 1.888.337.9786.

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