

## Resin systems for stereolithography

An epoxy and epoxy-acrylic systems with improved mechanical properties and higher thermo- and UV stability after curing used for prototype manufacturing by stereolithography. The resin systems contain a photoinitiator, which is sensitive to UV radiation. Recommended wavelength for curing is 300-350 nm.

Stereolithography is a progressive method of rapid prototyping based on curing of individual layers of photopolymer matrix by UV laser. Stereolithography method, also known as 3-D layering or 3-D printing, allows to create solid, plastic, three-dimensional (3-D) objects from CAD drawings in a matter of hours.

Three different resin systems are produced; details can be found in the following table.



Resin system	Type	Density at 25°C g/cm <sup>3</sup>	Viscosity mPa.s
Letoxit PRX 198	Epoxy	1.12-1.16	400-500
Letoxit PRX 180	Epoxy-acrylic	1.11-1.12	400-650
Letoxit PRX 193	Epoxy	1.12-1.16	300-500

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