ALWA
RESIN SYSTEMS & POROUS SLABS

INNOVATION
FOR MORE THAN
30 YEARS

Casting Resin for 3D Printing

ALWA 3D Resin

ALWA 3D Resin – Clear, High-Performance Prototyping Resin
It combines ABS-like usability with superior ductility, outperforming standard resins and offering an ideal balance of strength, bendability, and toughness. The result: prototypes and parts that are not only durable but also precise and versatile.

Key Features:

- High transparency
- Adjustable bend-to-hardness ratio
- Tough, durable, and resistant to bending under load

Applications for example:

- Functional prototypes
- Living hinges & snap-fits
- Medical & dental (guides, wearables)
- Electronics & optics components
- Sealing and assembly parts

Advantages:

- Customizable Properties: The bend-to-hardness ratio can be adjusted to meet specific needs.

Properties

UV Wavelength (nm)	405
Liquid density (g/cm3) at 19 °C	1.025
Viscosity (cP) at 23 °C	550.4
Hardness (Shore D)	80 ± 3
Bottom exposure time (s)	30-50
Normal exposure time (s)	30-50
Color	Clear
Flexural strength (MPa)*	27 ± 0.3
Flexural modulus (MPa)*	1193 ± 88
Tensile Strength (MPa)*	22.8 ± 1.5
Young modulus (MPa)*	746 ± 48
Elongation at break (%)*	21 ± 3
Resin washing	Isopropanol
Shelf life	Up to 1.5 years

* after 2 hours post curing