

# LVB Series

Innovative  
Photopolymer Materials  
for Dental Applications



LEVOBIO 

## Building a Better Future, One Monomer at a Time !



The LVB series is a range of state-of-the-art clear photopolymer materials developed specifically for the fabrication of various dental devices such as Dental crown, Dental Cast, Retainer and orthodontic aligners, etc.

Engineered to overcome the limitations of traditional thermoformed materials, the LVB series offers a cutting-edge solution for dental care, featuring a unique shape memory effect and a strong focus on patient safety and comfort.



## LVB Series

Innovative Photopolymer Materials



# Key Features



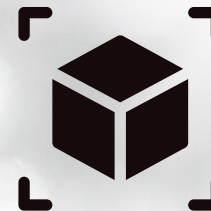
## Superior Mechanical Properties

**LVB series** boasts exceptional flexural strength and durability, ensuring a precise and long-lasting fit for the patients.



## Clear Aesthetic

**LVB series** affectionate patients' appearance and needs allowing a clean and clear prompt for functionality and aesthetics.



## Smart Polymer

The materials can perform smartly that could be highly tough, highly strong, or reform to original shape after deformation. Highly personalised and comfortability can be achieved.



### Biocompatible

The **LVB series** material is designed with an emphasis on biocompatibility, minimizing the risk of adverse reactions or irritation for patients.



### Direct 3D Printability

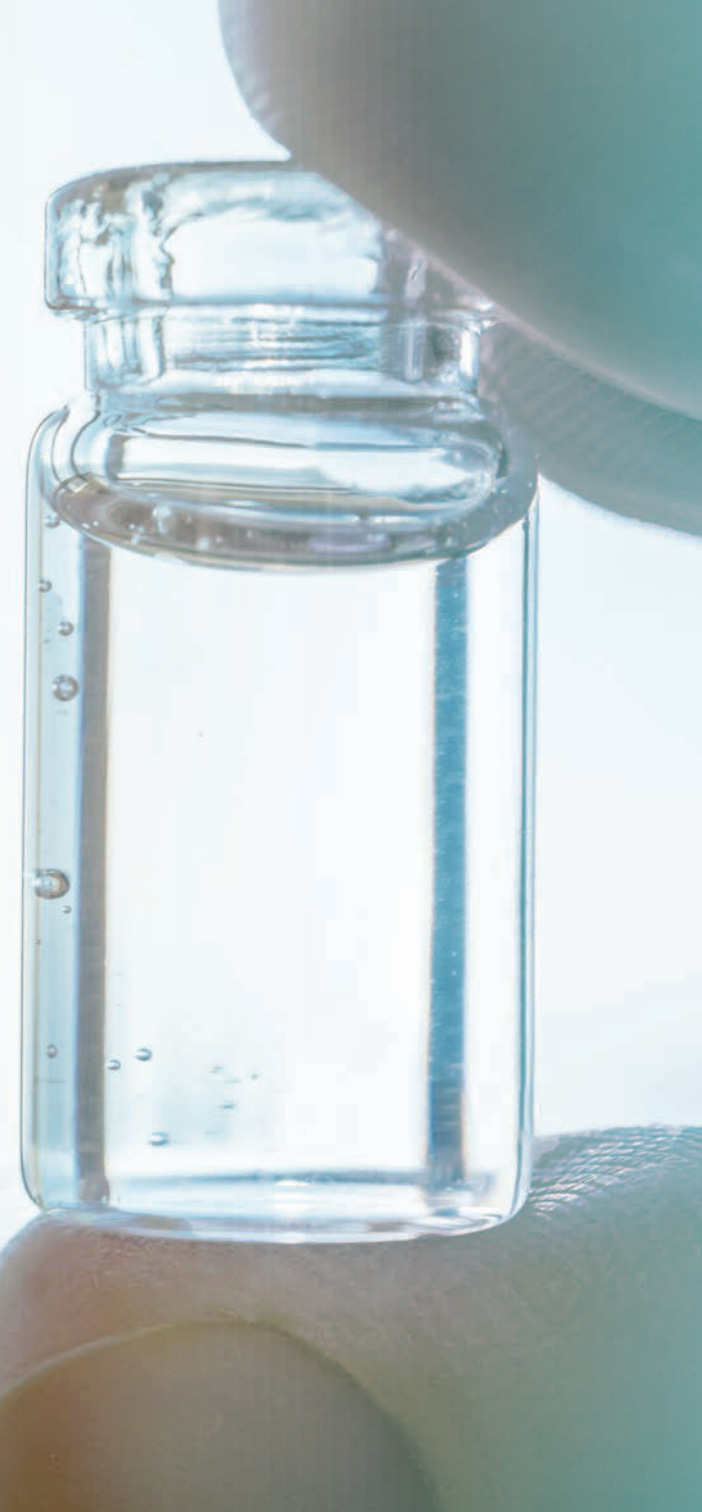
This material can be directly 3D printed, streamlining the manufacturing process and enabling the fabrication of aligners tailored to the unique size and shape of each patient's dentition.



### Enhanced Patient Comfort

The advanced polymer and materials compositions enable both functional and versatile solutions to your patient, comfortability is guaranteed.

By leveraging state-of-the-art 3D printing technology and offering exceptional material characteristics, **LVB series** is poised to redefine the Dental Material market, providing a transformative and safe solution for both professionals and patients.



# Technical Data

	Unit	LVB-01	LVB-02	LVB-03	LVB-04
APPEARANCE	-	Viscous	Viscous	Clear Liquid	Clear Liquid
REFRACTIVE INDEX	-	1.47	1.47	1.41	1.35
VISCOSITY	cps @ 25°C	~1500	~800	~600	>1000
FLEXURAL STRENGTH	MPa	~70 without filler ~>100 with filler	~>120 with filler	>60	>80
YIELD STRESS	MPa	>35	>30	>10	>20
YIELD STRAIN	MPa	>2.4	>2.6	>4	>3.5
ULTIMATE TENSILE STRENGTH	MPa	>50	>40	>20	>25
STRAIN AT BREAK	%	>10	>15	>25	>50
ELASTIC MODULUS	MPa	~1800	~1700	>1000	>500
PROPOSED APPLICATIONS	-	Dental Restorative Material	Dental Restorative Material	Clear aligners/ Retainers and Detal Sealout	Clear aligners/ Retainers

If you are looking for a superior clear photopolymer material for your dental devices, look no further than the LVB series. The LVB series is the most innovative and reliable product on the market, designed to meet the needs of dental practitioners and manufacturers.

Whether you need Dental Cast, Dental Crown orthodontic aligners or retainers, the LVB series can deliver optimal results.



Contact us today and learn how the LVB series can elevate your dental business.





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