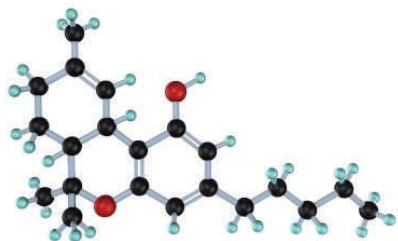


# ABSORBABLE POLYURETHANES



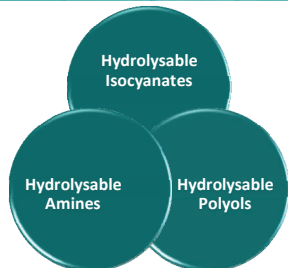
Imagine polyurethanes that are completely hydrolysable, biocompatible and have tunable physical and mechanical properties similar to those of commercially available medical grade biostable polyurethanes. At Bezwada Biomedical, we not only imagined it, we have made it into a reality.



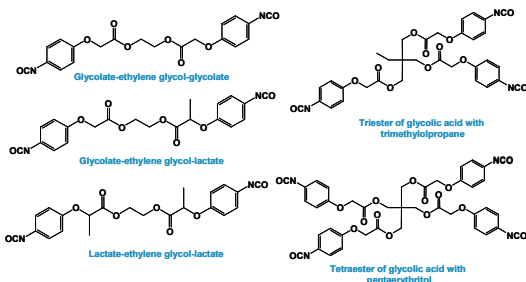
We are pleased to offer a portfolio of absorbable polyurethanes and their precursors for technical evaluation and product development. These absorbable polyurethanes provide us a technology platform with the potential to answer many challenging clinical and commercial needs.

Key features and benefits of absorbable polyurethanes include:

- *Completely hydrolysable into safe and biocompatible products*
- *Possess for the first time hydrolysable hard segments*
- *Tunable physical/mechanical properties and hydrolytic degradation profiles*
- *Toughness and mechanical properties of that of commercially available medical grade polyurethanes, and the absorbability of commercial biodegradable polymers*



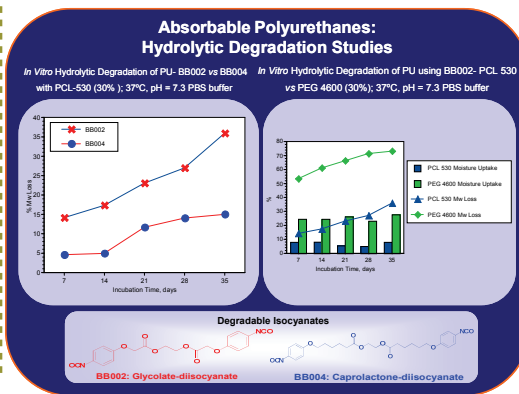
## Available Hydrolysable Isocyanates



## Properties of Absorbable polyurethanes vs. Biostable Polyurethanes

Polyurethane	Isocyanate	Polyol/soft segment	Max Tensile Strength (psi)	Elongation at Break (%)	Modulus (secant 50%) (psi)
Absorbable polyurethane	BB002	PEG 4600	7012	513	4057
Commercial biostable polyurethane	MDI	Polycarbonate diol	8326	362	3408

## Hydrolytic degradation profiles



## Key Applications

- Tissue Adhesive and Sealants
- Wound healing and Adhesion prevention
- Tissue Engineering Scaffolds and Foams
- Absorbable Vascular Grafts
- Absorbable Stents/Stent Coatings
- Orthopedic Fixation devices
- Medical Device Coatings

*Please contact us for a quotation for your custom synthesis needs*