

Absorbable Polymers



Elastomeric Foams
Films and Coatings



Sutures, Staples,
Pledgets and Clips



Tissue Engineering



Orthopedic Fixation
Devices



Controlled Drug
Delivery



Wound Healing and
Adhesion Prevention

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Introduction to Absorbable Polymers

Polymers that are designed to degrade under physiological conditions are referred to as absorbable polymers. These polymers are sometimes also referred to as biodegradable or bioerodible or bioabsorbable polymers. Bezwada Biomedical is pleased to offer a range of absorbable polymers for technical evaluation and product development. These absorbable polymers and copolymers can be used in various biomedical applications including:

- Encapsulation and Controlled drug delivery
- Gene Therapy
- Dental and Medical Devices
- Sutures, Staples, Clips and meshes
- Orthopedic fixation devices
- Tissue engineering scaffolds
- Elastomeric films and medical device coatings

Most of the synthetic absorbable polyesters are produced by ring opening homopolymerization or copolymerization of five key lactone based safe and biocompatible monomers. These are glycolide, L-lactide and its isomers, ϵ -caprolactone, p-dioxanone and trimethylene carbonate (TMC). The structures and IUPAC names of these monomers and corresponding polymers are shown below in Figure 1 and Figure 2 respectively.

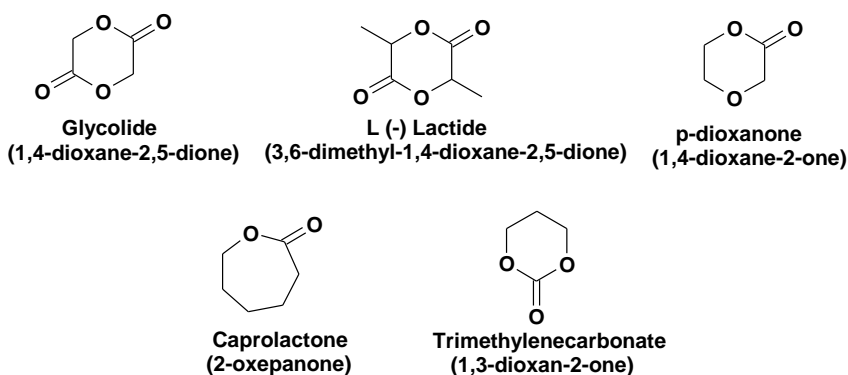


Figure 1 Five key monomers that are used extensively as precursors for synthetic absorbable polyesters.

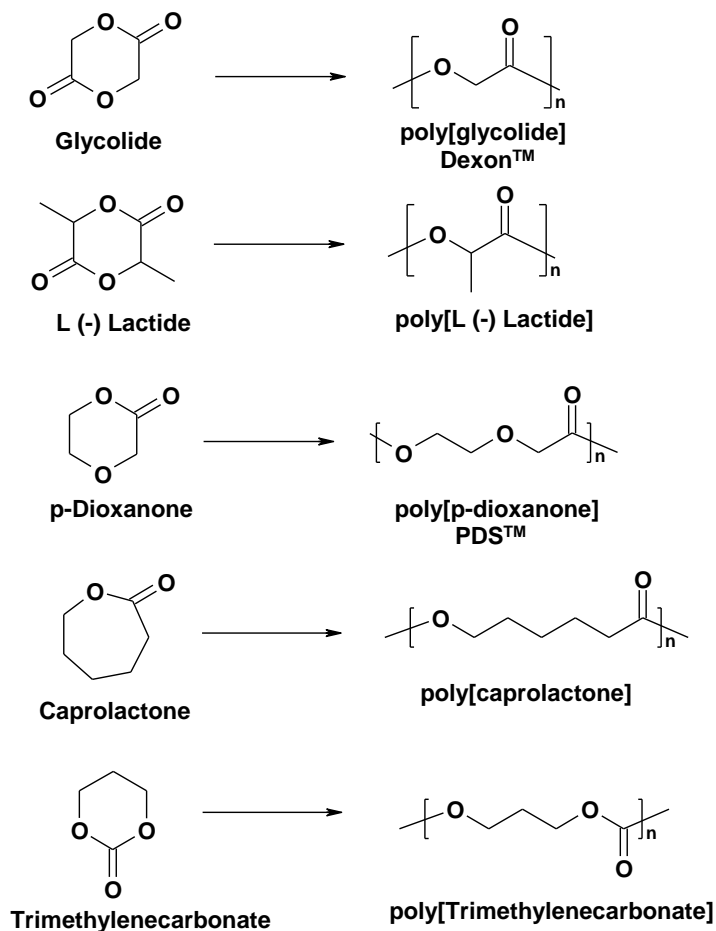


Figure 2 Five key homopolymers

At Bezwada, Biomedical, we understand the challenges and risks involved in bringing a highly differentiated and technically advanced bioabsorbable product to the market. By combining our years of experience and unequalled expertise in developing absorbable polymers, we evaluate the individual needs of our customers and develop smart, value added solutions ideally matched to their end-use requirements.

In addition to custom synthesized absorbable polymers, we also provide our customers with absorbable copolymers with varying compositions. These include copolymers of caprolactone, glycolide and lactide and copolymers of p-dioxanone with caprolactone, lactide, and glycolide among others.

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Bezwada Biomedical offers a range of standard absorbable polymers and co-polymers outlined below in small quantities up to Kilogram level. Please visit us online for more information.

CAPROMAXX®

Dyed & Undyed Caprolactone
Homopolymers & Copolymers

LACTOMAXX®

L-Lactide & D,L Lactide Homopolymers &
Copolymers

GLYCOMAXX®

Glycolide Homopolymers & Copolymers

CARBOMAXX®

Trimethylene Carbonate Homopolymers &
Copolymers

DIOXOMAXX®

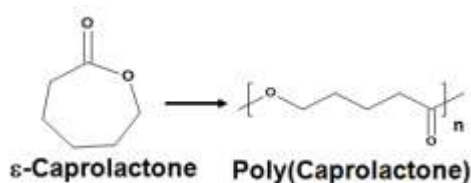
Dyed & Undyed Para-dioxanone
Homopolymers & Copolymers

Call us today at (908) 281-7529 to place an order or discuss your custom synthesis needs. In addition, to view our portfolio of new technology platforms, visit our website at www.bezwadabiomedical.com.

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Polycaprolactone (PCL) Polymers

Polycaprolactone is prepared via ring-opening polymerization of ϵ -caprolactone, a water-soluble monomer. It is a semi-crystalline polymer with a typical melting point range of 56 to 72°C and a typical glass-transition temperature range of -50°C to -65°C. Due to the long degradation time of poly(caprolactone), on the order of two years, copolymers have been synthesized to accelerate the rate of bioabsorption. For example, copolymers of ϵ -caprolactone with glycolide or DL-lactide result in materials with more-rapid hydrolytic degradation rates. Furthermore, it is generally used to reduce the stiffness of the pure polyglycolide polymer.



APPLICATIONS:

- Implantable medical devices
- Orthopedic devices
- Drug delivery
- Meshes, Sutures, Staples, Clips

Given below is the collection of our caprolactone homopolymers and copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

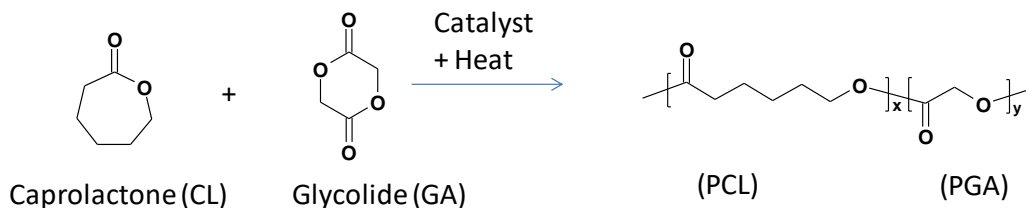
Polycaprolactone (PCL) homopolymers

Product #	Trade Name	Composition	Viscosity Range(dL/g)
1100-27	CAPROMAXX®100	Caprolactone Homopolymer	0.2-0.9
1100-27	CAPROMAXX®100	Caprolactone Homopolymer	1.2-2.2
1100-27	CAPROMAXX®100	Caprolactone Homopolymer	2.4-3.2

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Caprolactone Based Copolymers

Copolymers of Caprolactone/Glycolide (PCL/PGA)

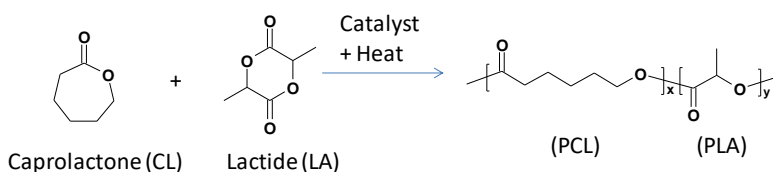


The presence of caprolactone repeat units helps in reducing the hardness and toughness of pure polyglycolide polymer and helps in decreasing the hydrolytic degradation rates of polyglycolide homopolymer due to the presence of extended alkyl chain/hydrophobicity of caprolactone. Given below is the collection of our Caprolactone/Glycolide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dL/g)
1295	CAPROMAXX [®] CG955	PCL/PGA 95/5	1.0-2.0
1291	CAPROMAXX [®] CG 910	PCL/PGA 90/10	1.0-2.0
1281	CAPROMAXX [®] CG 8515	PCL/PGA 85/15	0.5-2.0
1263	CAPROMAXX [®] CG 6535	PCL/PGA 65/35	0.5-1.5

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Copolymers of Caprolactone/Lactide (PCL/PLA)



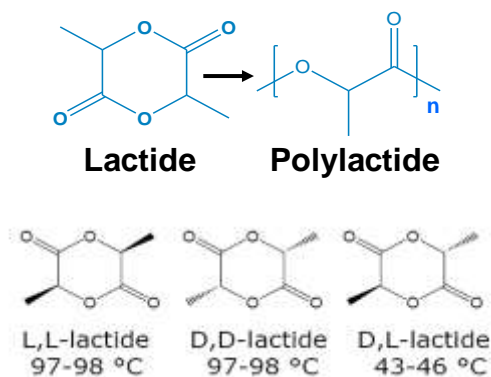
The presence of lactide repeat units in the copolymer reduces the degree of close packing between caprolactone repeat units leaving the polymer with nice elastic properties while maintaining a relatively slow degradation profile. This allows PCL-PLA copolymers to be used in drug delivery and medical device coating applications for controlled release applications. Given below is the collection of our Caprolactone/L-Lactide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
1395	CAPROMAXX [®] CL955	PCL/PLA 95/5	1.5-2.5
1391	CAPROMAXX [®] CL 910	PCL/PLA 90/10	1.5-2.0
1381	CAPROMAXX [®] CL8515	PCL/PLA 85/15	1.5-2.5
1363	CAPROMAXX [®] CL6535	PCL/PLA65/35	1.0-1.5

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Poly lactide (PLA)

The term polylactides refers to a family of materials with a wide range of physical and mechanical properties depending upon the stereochemistry of the starting lactide monomer. Lactide is the cyclic dimer of lactic acid that exists as three stereoisomers, L(-)-lactide, D(+) lactide and meso lactide. L(-)-lactide and D(+) lactide are optical isomers. L(-)-lactide is the naturally occurring isomer, and DL-lactide (meso lactide) is the synthetic blend of D(+)-lactide L(-)-lactide. Poly(L(-)-lactide) and poly(D(+)) lactide homopolymers are crystallizable and exhibit melting transitions between 170 and 182°C. Poly(L(-)-lactide) is a semi-crystalline (~37% crystallinity) polymer with a melting point of 175-178°C and a glass-transition temperature of 60-65°C. Furthermore, it has a high tensile strength and low elongation, and it has a high modulus that makes it suitable for load-bearing applications as in sutures or absorbable orthopedic devices. In contrast to L(-)-PLA, poly(dl-lactide) (DL-PLA) is an amorphous polymer, comprised of both isomeric forms of lactide distributed in a random manner. This results in lower tensile strength, higher elongation, and a much more rapid degradation time for DL-PLA in comparison to L(-)-PLA, making it more attractive as a carrier for controlled release of drugs. The complete absorption of L(-)-PLA requires more than 2 years and is much slower than that of DL-PLA. In order to decrease the absorption times of implantable devices incorporating L(-)-lactide, copolymers of L(-)-lactide and dl-lactide with glycolide have been prepared. Copolymers of L-Lactide and D,L lactide were also prepared to manage the absorption time and physical and chemical properties.



Applications:

- Implantable medical devices
- Orthopedic devices
- Drug delivery

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- Foams
- Tissue Engineering Scaffolds
- Meshes, Sutures, Staples, Clips

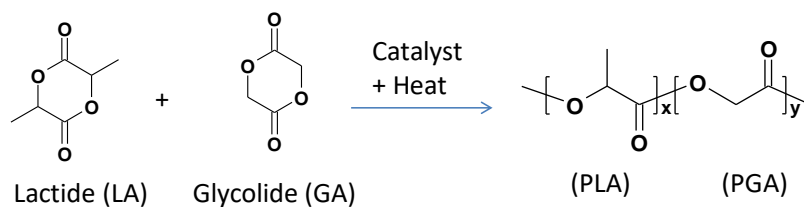
Given below is the collection of our L-Lactide homopolymers. In case the polymer viscosity you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

L-Lactide Homopolymers

Product #	Trade Name	Composition	Viscosity Range(dl/g)
3100	LACTOMAXX® L100	L-Lactide Homopolymer	0.1-2.0
3100	LACTOMAXX® L100	L-Lactide Homopolymer	2.0-3.0

L-Lactide Copolymers

Copolymers of Lactide/Glycolide (PLA/PGA)

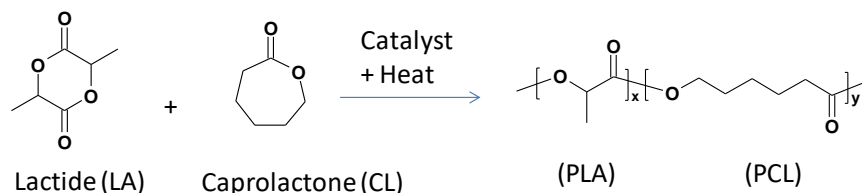


Given below is the collection of our L-Lactide/glycolide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
3281	LACTOMAXX® LG8515	PLA/PGA 85/15	1.5-2.0
3282	LACTOMAXX® LG820	PLA/PGA 80/20	1.0-1.5
3263	LACTOMAXX® LG63	PLA/PGA 65/35	0.1-1.0

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Copolymers of Lactide/Caprolactone (PLA/PCL)



The presence of caprolactone repeat units in the copolymer reduces the degree of close packing between lactide repeat units leaving the polymer with nice elastic properties while maintaining a relatively slow degradation profile. This allows PLA-PCL copolymers to be used in drug delivery and medical device coating applications for controlled release applications. Given below is the collection of our Caprolactone/L-Lactide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
3191	LACTOMAXX™ LC 910	PLA/PCL90/10	1.0-2.0
3181	LACTOMAXX™ LC 8515	PLA/PCL85/15	1.0-2.0
3172	LACTOMAXX™ LC 7525	PLA/PCL75/25	1.0-2.0
3173	LACTOMAXX™ LC 730	PLA/PCL 70/30	1.0-2.0
3164	LACTOMAXX™ LC 6040	PLA/PCL60/40	0.5-1.0
3154	LACTOMAXX™ LC 5545	PLA/PCL55/45	1.0-2.0

Copolymers of Lactide/Polytrimethylene carbonate (PLA/TMC)

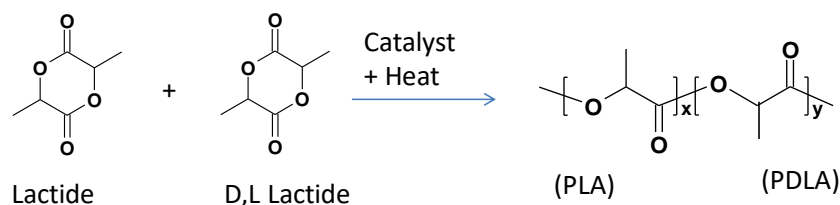
Given below is the collection of our L-Lactide/Trimethylene carbonate copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
3582	LACTOMAXX®	PLA/TMC 80/20	1.0-2.0

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3573	LACTOMAXX®	PLA/TMC 70/30	1.0-2.0
3564	LACTOMAXX®	PLA/TMC 60/40	0.5-1.0

Copolymers of Lactide/ D,L Lactide (PLA/PDLA)



Typically, PLA has a significantly higher crystallinity and degradation time than poly(D,L-lactide). This is attributed to the presence of all of the methyl units arranged on one side of the polymer chain sequence which results in dense packaging. Hence the presence of D,L-PLA repeat units in the L-PLA homopolymer repeat units reduces the crystallinity and enables faster hydrolytic degradation rate of L-PLA. Given below is the collection of our L-Lactide/Caprolactone copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
3473	LACTOMAXX® LDLC 730	PLA/PDLA 70/30	2.0 -3.0

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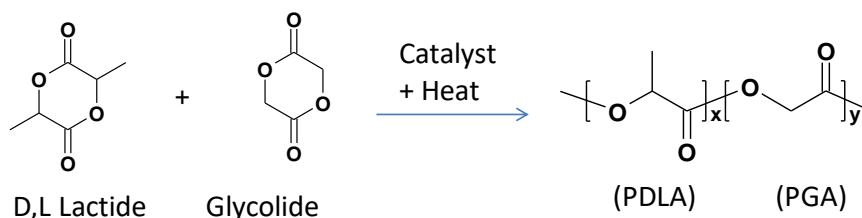
D, L Lactide Copolymers

Copolymers of D,L Lactide/Caprolactone (PDLA/PCL)

Given below is the collection of our D,L-Lactide/Caprolactone copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements

Product #	Trade Name	Composition	Viscosity Range (dl/g)
4182	LACTOMAXX® 820	DLPLA/PCL 80/20	0.50-1.0

Copolymers of D,L Lactide/Glycolide (PDLA/PGA)



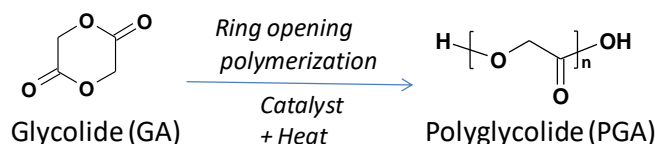
Given below is the collection of our D,L-Lactide/Glycolide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

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Product #	Trade Name	Composition	Viscosity Range (dl/g)
4255	LACTOMAXX® LDLG 550	DLPLA/PGA 50/50	1.0-1.5
4281	LACTOMAXX® LDLG 8515	DLPLA/PGA 85/15	0.5-1.0
4272	LACTOMAXX® DLG 7525	DLPLA/PGA 75/25	0.50-1.0
4263	LACTOMAXX® DLG 6535	DLPLA/PGA 65/35	0.50-1.0

Polyglycolide & Copolymers

Polyglycolide is prepared by the ring-opening polymerization of glycolide monomer. Ring opening polymerization provides high-molecular weight polyglycolide, the simplest linear aliphatic polyester. Polyglycolide was originally used to manufacture the first totally synthetic absorbable suture, marketed as Dexon™ in the 1970s by Davis and Geck, Inc. The high crystallinity of PGA (40-55%) limits its solubility in most organic solvents with the exception of highly fluorinated organic solvents such as hexafluoroisopropanol and hexafluoroacetone. PGA exhibits a high melting point (220-225°C) and a glass-transition temperature of 35-40°C. Although fibers from PGA exhibit high tensile strength and modulus, they are too stiff to be used as sutures except in the form of braided material. A typical suture braid prepared from PGA loses about 50% of its strength after 2 weeks and 100% at 4 weeks, and is completely absorbed in 3-4 months. In order to reduce the stiffness of the fibers, glycolide is copolymerized with other monomers such as caprolactone and trimethylene carbonate. For example, glycolide has also been polymerized with TMC and *p*-dioxanone to form a terpolymer suture Biosyn™ that absorbs within 3-4 months and offers reduced stiffness compared with pure PGA fibers.



Applications:

- Implantable medical devices
- Orthopedic devices
- Drug delivery
- Foams

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- Tissue Engineering Scaffolds
- Meshes, Sutures, Staples, Clips

Glycolide Homopolymer

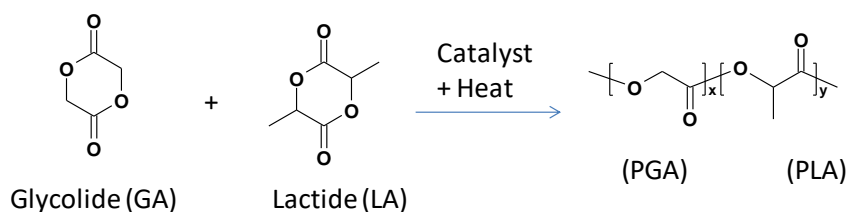
Given below is our Glycolide polymer. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
2100	GLYCOMAXX® 100	PGA Homopolymer	1.68

Glycolide Copolymers

Copolymers of Glycolide/Lactide (PGA/PLA)

Poly(lactide-co-glycolide). In order to expand the utility of lactide and glycolide monomers beyond its homopolymer use and to extend the bandwidth of homopolymer properties, a number of copolymers of glycolide with both L(-)-lactide and DL-lactide have been developed. These copolymers have found numerous applications in medical device and controlled drug delivery applications. For example, a copolymer of 90% glycolide and 10% l-lactide was developed by Ethicon as an absorbable suture material under the trade name Vicryl™. Similarly, Monocryl™ sold as a monofilament suture by Ethicon, Inc. is a block copolymer of ε-caprolactone with glycolide, and has reduced stiffness compared to Dexon™ which is prepared from polyglycolide homopolymer.



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Given below is the collection of our Glycolide/Lactide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

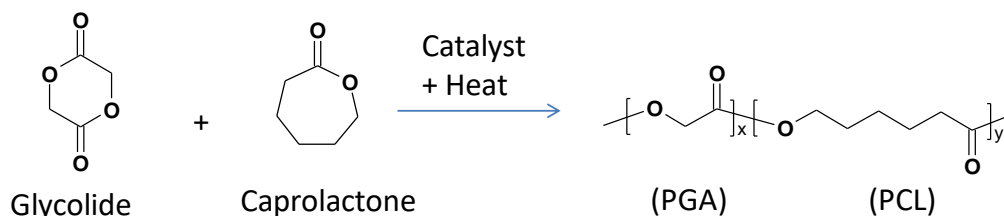
Product #	Trade Name	Composition	Viscosity Range(dl/g)
23955	GLYCOMAXX® GL955	PGA/PLA 95/5	1.2 to 2.0
2391	GLYCOMAXX® GL910	PGA/PLA 90/10	1.2 to 2.0
2381	GLYCOMAXX® GL8515	PGA/PLA 85/15	1.2 to 2.0

Copolymers of Glycolide/Trimethylene Carbonate (PGA/TMC)

Given below is the collection of our Glycolide/ Trimethylene Carbonate copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
2564	GLYCOMAXX®640	PGA/TMC 60/40	1.0-2.0

Copolymers of Glycolide/Caprolactone (PGA/PCL)



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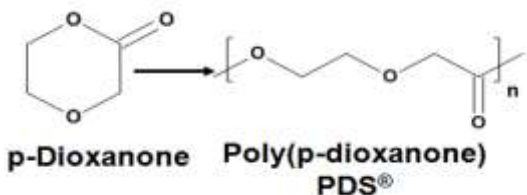
Given below is the collection of our Glycolide/caprolactone copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
2191	GLYCOMAXX®GC910	PGA/PCL 90/10	1.0-2.0
2172	GLYCOMAXX®GC7525	PGA/PCL 75/25	1.0-2.0
2173	GLYCOMAXX®GC730	PGA/PCL 70/30	1.0-2.0
2164	GLYCOMAXX®GC640	PGA/PCL 60/40	1.0-2.0
2154	GLYCOMAXX®GC5545	PGA/PCL 55/45	1.0-2.0

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Polydioxanone Polymer & Copolymers

Poly(*p*-dioxanone) is prepared via ring-opening polymerization of *p*-dioxanone. It is the base material for the monofilament synthetic suture PDS[®], marketed by Ethicon Inc. Poly(*p*-dioxanone) has a low melting temperature of approximately 110 to 120°C and exhibits a low glass transition temperature of approximately -5 to -15°C. This material has crystallinity of approximately 30-45%. It is the low glass transition temperature of poly(*p*-dioxanone) and its ability to be crystallized, coupled with its biocompatibility, which resulted in its application as a monofilament suture and other absorbable devices that can be flexed without breaking. The PDS[®] suture retains 50% of its initial breaking strength after 3 weeks and is absorbed within 6 months, providing an advantage over Dexon[®] or other products for slow-healing wounds. Poly (*p*-dioxanone) is not as thermally stable as other synthetic absorbable polyesters. This is attributed to the monomer-polymer equilibrium being more favorable to the monomer than polymer. Hence, poly(*p*-dioxanone) is processed at the lowest possible temperature to prevent depolymerization back to monomer. Furthermore, during the synthesis of poly(*p*-dioxanone) polymer by solid-state polymerization, the reaction temperature is kept lower than the melting point of the forming polymer. Moreover, the unreacted residual monomer is removed by volatilization under vacuum at temperatures lower than the melting point of poly(*p*-dioxanone) polymer.



Applications:

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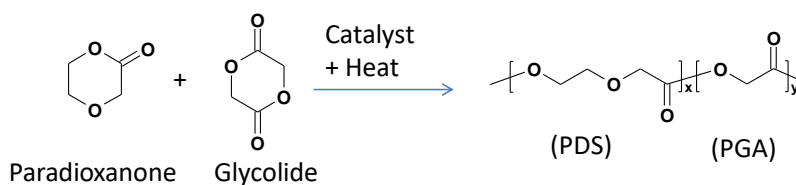
Given below is the collection of our polydioxanone polymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Poly(dioxanone) Homopolymers

Product #	Trade Name	Composition	Viscosity Range (dl/g)
6100	DIOXOMAXX®100	PDS Homopolymer	1.0-1.50
6100	DIOXOMAXX®100	PDS Homopolymer	1.4-2.20
6100-D	DIOXOMAXX®100	PDS Dyed Homopolymer	2.2-3.2

Poly(dioxanone) Copolymers

Copolymers of paradioxanone/glycolide (PDS/PGA)

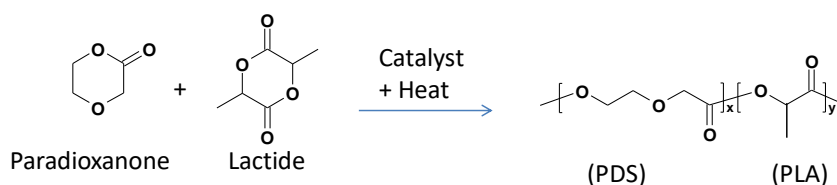


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Given below is the collection of our Paradioxanone/glycolide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range(dl/g)
6291	DIOXOMAXX®PG910	PDS /PGA 90/10	1.5-2.5
6291	DIOXOMAXX®PG910	PDS /PGA 87/13	1.0-2.0

Copolymers of Paradioxanone/L-Lactide (PDS/PLA)



Given below is the collection of our Paradioxanone/L-lactide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
63955	DIOXOMAXX®PL955	PDS / PLA 95/5	1.0-2.0
63928	DIOXOMAXX®PL928	PDS / PLA 92/8	1.0-2.0
63955	DIOXOMAXX®PL955	PDS / PLA 90/10-	1.5-2.5
638515	DIOXOMAXX®PL8515	PDS / PLA 85/15	2.0-2.5
6372	DIOXOMAXX®PL7525	PDS / PLA 75/25	1.0-2.0
6364	DIOXOMAXX®PL640	PDS / PLA 60/40	1.0-2.0

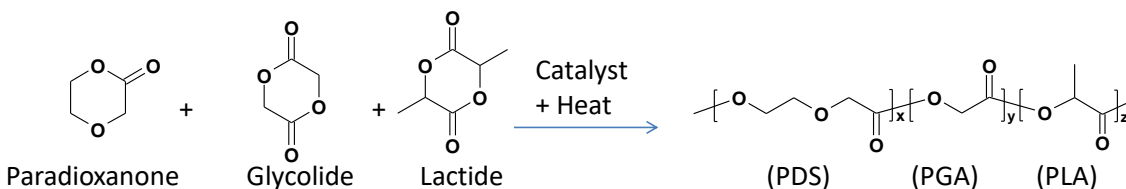
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Copolymers of paradioxanone/polytrimethylene carbonate (PDS/TMC)

Given below is the collection of our paradioxanone/*polytrimethylene carbonate* copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity (dl/g)
6581	DIOXOMAXX®PT81	PDS / TMC 85/15	1.0-2.0
6573	DIOXOMAXX®PT73	PDS / TMC 70/30	1.0-2.0

Copolymers of paradioxanone/L-Lactide/Glycolide (PDS/PLA/PGA)



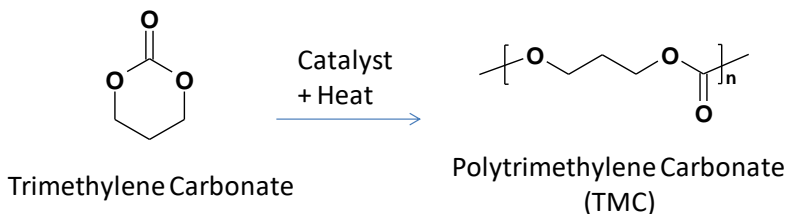
Given below is the collection of our paradioxanone/L-lactide/glycolide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
623955	DIOXOMAXX®	PDS/PGA/PLA 95/5/5	1.5 to 2.5

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Trimethylene Carbonate (TMC) Polymer

Polytrimethylene Carbonate (TMC Homopolymer) is prepared via ring opening polymerization of trimethylene Carbonate (TMC) which is a 6-membered cyclic carbonate ester. It is an amorphous rubbery polymer with a glass transition temperature range $-15\pm 5^{\circ}\text{C}$. The flexible and non-crystalline nature of this polymer makes it useful in various soft tissue regeneration and drug delivery applications.



Given below is the collection of our TMC polymers and copolymers. In case the viscosity you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

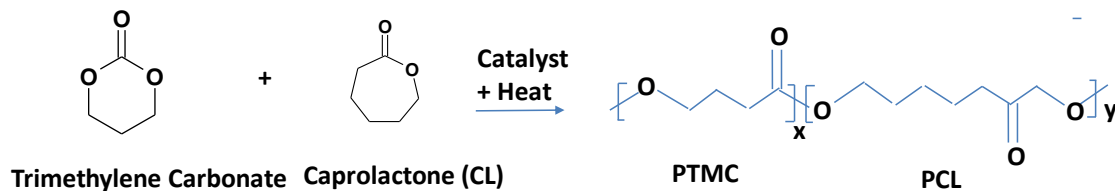
Trimethylene Carbonate (TMC) Polymer

Product #	Trade Name	Composition	Viscosity Range (dl/g)
5100	CARBOMAXX®100	TMC Homopolymer	0.1-2.0
5100	CARBOMAXX®100	TMC Homopolymer	0.5-1.0

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Trimethylene Carbonate (TMC) Copolymers

Copolymers of TMC/Caprolactone (PTMC/PCL)



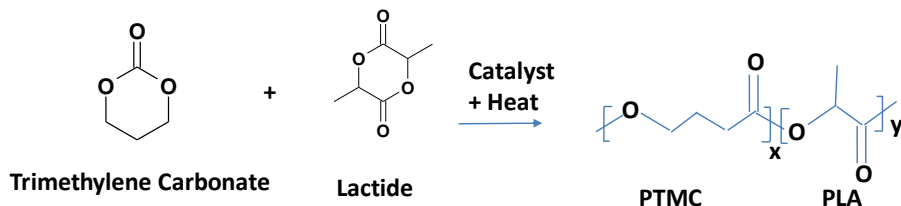
Given below is the collection of our TMC/Caprolactone copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
5191	CARBOMAXX [®] TC910	PTMC/PCL 90/10	1.22
5182	CARBOMAXX [®] TC820	PTMC/PCL 80/20	1.54

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Copolymers of TMC/L-Lactide (PTMC/PLA)

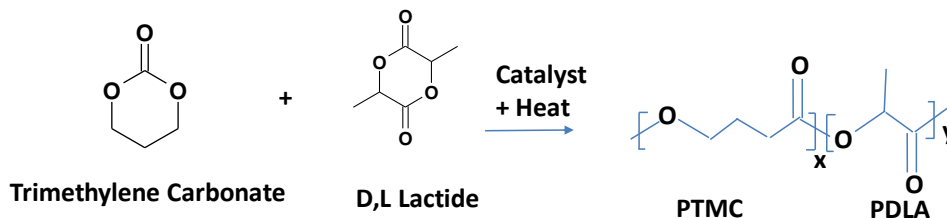


Given below is the collection of our TMC/L-Lactide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
5391	CARBOMAXX® TL910	PTMC/PLA 90/10	0.1 – 1.5
5382	CARBOMAXX® TL820	PTMC/PLA 80/20	0.5 - 1.5
5364	CARBOMAXX® TL640	PTMC/PLA 60/40	0.5 - 1.0

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Copolymers of TMC/D,L-Lactide



Given below is the collection of our TMC/L-Lactide copolymers. In case the polymer you are looking for is not listed below, please let us know as we can do custom polymer synthesis to meet your requirements.

Product #	Trade Name	Composition	Viscosity Range (dl/g)
5455	CARBOMAXX® TDL55	PTMC/DLPLA 50/50	0.5-1.0

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POLYMER SAMPLE KITS

Bezwada Biomedical also provide our customers with combination of our absorbable homopolymers kits for research studies. The kits are also available for copolymers which includes copolymers of caprolactone, glycolide, lactide, trimethylene carbonate (TMC) and p-dioxanone.

Given below is the collection of our homopolymers and copolymers kits. In case the combination you are looking for is not listed below, You can choose the polymers to customize the kit.

HOMOPOLYMER KITS

Product #	Trade Name	Composition	Pack Size
1100-20	CAPROMAXX®100	Caprolactone Homopolymer	5.0 GM EACH
2100	GLYCOMAXX®100	Glycolide Homopolymer	
3100	LACTOMAXX® 100	L-Lactide Homopolymer	
4100	LACTOMAXX® 100	D, L-Lactide Homopolymer	
6100	DIOXOMAXX®100	PDS Homopolymer	
6100-D	DIOXOMAXX®100	PDS Dyed Homopolymer	
6100-D	DIOXOMAXX®100	PDS Dyed Homopolymer	
5100	CARBOMAXX®100	TMC Homopolymer	

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COPOLYMER KITS

TRIMETHYLENE CARBONATE COPOLYMER KITS

Product #	Trade Name	Composition	Pack Size
5191	CARBOMAXX® TC910	PTMC/PCL 90/10	5.0 GM EACH
5391	CARBOMAXX® TL910	PTMC/PLA 90/10	
	CARBOMAXX® TL820	PTMC/PLA 80/20	
5182	CARBOMAXX® TC820	PTMC/PCL 80/20	
5455	CARBOMAXX® TDL55	PTMC/DLPLA 50/50	
5164	CARBOMAXX® TC640	PTMC/PLA 60/40	
		PTMC/PDS/PLA 14/7/79	

POLY(DIOXANE) KITS

Product #	Trade Name	Composition	Pack Size
623955	DIOXOMAXX®PGL955	PDS/PGA/PLA 95/5/5	5.0 GM EACH
6291	DIOXOMAXX®PG910	PDS /PGA 90/10	
6391	DIOXOMAXX®PL910	PDS / PLA 90/10	
6381	DIOXOMAXX®PL8515	PDS / PLA 85/15	
63955	DIOXOMAXX®PL955	PDS / PLA 95/5	

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CAPROLACTONE COPOLYMERS KIT

Product #	Trade Name	Composition	Pack Size
13955	CAPROMAXX®CL955	PCL/PLA 95/5	5.0 GM EACH
1391	CAPROMAXX®CL 910	PCL/PLA 90/10	
1381	CAPROMAXX®CL8515	PCL/PLA 85/15	
	CAPROMAXX®CL640	PCL/PLA 60/40	
	CAPROMAXX®CL6535	PCL/PLA 65/35	
1295	CAPROMAXX® CG955	PCL/PGA 95/5	
1291	CAPROMAXX®CG 910	PCL/PGA 90/10	
	CAPROMAXX®CG 8515	PCL/PGA 85/15	
	CAPROMAXX®CG 6535	PCL/PLA 65/35	

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LACTIDE COPOLYMER KITS

Product #	Trade Name	Composition	Pack Size
3173	LACTOMAXX [®] LC 730	PLA/PCL 70/30	5.0 GM EACH
	LACTOMAXX [®] LC 7525	PLA/PCL 75/25	
	LACTOMAXX [®] LC 8515	PLA/PCL 85/15	
	LACTOMAXX [®] LC 910	PLA/PCL 90/10	
3164	LACTOMAXX [™] LC 6040	PLA/PCL 60/40	
3154	LACTOMAXX [™] LC 5545	PLA/PCL 55/45	
3281	LACTOMAXX [®] LG8515	PLA/PGA 85/15	
3282	LACTOMAXX [®] LG820	PLA/PGA 80/20	
3263	LACTOMAXX [®] LG6535	PLA/PGA 65/35	
3282	LACTOMAXX [®] LG8515	PLA/PGA 85/15	
4173	LACTOMAXX [®] LDLC 730	PLA/PDLA 70/30	
4155	LACTOMAXX [®] LDLG 550	DLPLA/PGA 50/50	
4255	LACTOMAXX [®] LDLG 550	DLPLA/PGA 50/50	
4281	LACTOMAXX [®] LDLG 8515	DLPLA/PGA 85/15	
	LACTOMAXX [®] LDLG 820	DPLA/PGA 80/20	
4272	LACTOMAXX [®] DLG 7525	DLPLA/PGA 75/25	
4263	LACTOMAXX [®] DLG 6535	DLPLA/PGA 65/35	
		PLA/PTMC 70/30	
		PLA/PTMC 60/40	
		PLA/PTMC 80/20	
		PLA/PGA 82/18	

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GLYCOLIDE COPOLYMERS KITS

Product #	Trade Name	Composition	Pack Size
23955	GLYCOMAXX® GL955	PGA/PLA 95/5	5.0 GM EACH
2391	GLYCOMAXX® GL910	PGA/PLA 90/10	
2382	GLYCOMAXX®GL820	PGA/PLA 80/20	
2172	GLYCOMAXX®GC7525	PGA/PCL 75/25	
		PGA/PCL 80/20	
		PGA/PCL 70/30	
2164	GLYCOMAXX®GC640	PGA/PCL 60/40	
2154	GLYCOMAXX®GC5545	PGA/PCL 55/45	
		PGA/TMC 55/45	
		PGA/TMC 60/40	

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