

Biodegradable Polymer Solutions for Advanced Medical Applications

PLGA (polylactic-co-glycolic acid) polymers are foundational to the design of biodegradable medical devices and drug delivery—We offer a full portfolio of PLGA homopolymers, such as PLLA, PLGA and PGA, as well as a wide range of copolymer blends.

We go beyond standard PLGA by formulating advanced copolymers that combine PLGA with other biodegradable polymers like polycaprolactone (PCL), polydioxanone (PDS), and poly(trimethylene carbonate) (PTMC). This enables us to deliver a diverse set of materials tailored to meet various performance, degradation, mechanical, and biological requirements.

Our expertise lies in custom polymer formulation to match the specific design and functional needs of each medical product. Whether you're in early research or ready for clinical manufacturing, we supply monomers and polymers in both research and GMP grades to support your development path.

Applications of Our Biodegradable Polymers Include:

- Controlled drug delivery and encapsulation systems
- Gene therapy vectors
- Dental and general medical devices
- Sutures, staples, clips, and surgical meshes
- Orthopedic fixation implants
- Tissue engineering scaffolds
- Elastomeric films and medical device coatings

Key Product Families:

- **CAPROMAXX®** – Dyed and undyed caprolactone homopolymers and copolymers
- **LACTOMAXX®** – L-lactide and D,L-lactide homopolymers and copolymers
- **GLYCOMAXX®** – Glycolide homopolymers and copolymers
- **CARBOMAXX®** – Trimethylene carbonate homopolymers and copolymers
- **DIOXOMAXX®** – Dyed & Undyed Para-dioxanone Homopolymer & Copolymers

We are committed to helping our partners create innovative, high-performance biodegradable medical products through tailored polymer solutions.

Catalog #	Product
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PLGA PRODUCTS

Caprolactone Homopolymers

1100-1	CAPROMAXX® 100 (Caprolactone Homopolymer, IV 0.2-1.0 dL/g)
1100-2	CAPROMAXX® 100 (Caprolactone Homopolymer, IV 1.0-2.0dL/g)
1100-3	CAPROMAXX® 100 (Caprolactone Homopolymer, IV 2.0-3.0 dL/g)
1100-4	CAPROMAXX® 100 (Caprolactone Homopolymer, IV 3.0-3.5)

Caprolactone/Glycolide Copolymers

1295	CAPROMAXX® CG955 (PCL/PGA 95/5, IV 1.0-2.0 dL/g)
1291	CAPROMAXX® CG910 (PCL/PGA 90/10, IV 1.0-2.0 dL/g)
1281-1	CAPROMAXX® CG8515 (PCL/PGA 85/15, IV 0.5-1.0 dL/g)
1281-2	CAPROMAXX® CG8515 (PCL/PGA 85/15, IV 1.0-2.0 dL/g)

Caprolactone/Lactide Copolymers

1359	CAPROMAXX® CL955 (PCL/PLA 95/5, IV 1.5-2.5 dL/g)
1391	CAPROMAXX® CL910 (PCL/PLA 90/10, IV 1.0-2.0 dL/g)
1381	CAPROMAXX® CL8515 (PCL/PLA 85/15, IV 1.5-2.5 dL/g)
1363	CAPROMAXX® CL6535 (PCL/PLA 65/35, IV 1.0-1.5 dL/g)

L-Lactide Homopolymers

3100-1	LACTOMAXX® L100 (L-Lactide Homopolymer, IV 0.5-1.0 dL/g)
3100-2	LACTOMAXX® L100 (L-Lactide Homopolymer, IV 1.0-2.0 dL/g)
3100-3	LACTOMAXX® L100 (L-Lactide Homopolymer, IV 2.0-3.0 dL/g)

Lactide/Glycolide Copolymers

3281	LACTOMAXX® LG8515 (PLA/PGA 85/15, IV 1.0-2.0 dL/g)
3263	LACTOMAXX® LG64 (PLA/PGA 65/35, IV 0.5-1.0 dL/g)

Lactide/Caprolactone Copolymers

3191	LACTOMAXX® LC910 (PLA/(PCL 90/10, IV 1.0-2.0 dL/g)
3181	LACTOMAXX® LC8515 (PLA/PCL 85/15, IV 1.0-2.0 dL/g)
3173	LACTOMAXX® LC730 (PLA/PCL 70/30, IV 1.0-2.0 dL/g)
3164	LACTOMAXX® LC640 (PLA/PCL 60/40, IV 1.0-2.0 dL/g)
3154	LACTOMAXX® LC5545 (PLA/PCL 55/45, IV 1.0-2.0 dL/g)

Lactide/Polytrimethylene Carbonate Copolymers

3582	LACTOMAXX® LT820 (PLA/TMC 80/20, IV 1.0-2.0 dL/g)
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3573	LACTOMAXX® LT730 (PLA/TMC 70/30, IV 1.0-2.0 dL/g)
3564-1	LACTOMAXX® LT640 (PLA/TMC 60/40, IV 0.2-0.5 dL/g)
3564-2	LACTOMAXX® LT640 (PLA/TMC 60/40, IV 0.5-1.0 dL/g)

L-Lactide/D,L-Lactide Copolymers

3472	LACTOMAXX® LDLC 820 (PLA/PDLA 80/20, IV 1.0-2.0 dL/g)
3473-1	LACTOMAXX® LDLC 730 (PLA/PDLA 70/30, IV 1.0-2.0 dL/g)
3473-2	LACTOMAXX® LDLC 730 (PLA/PDLA 70/30, IV 2.0-3.0 dL/g)

35679147	LACTOMAXX® L55 (TMC/PDO/PLA 14/7/79, IV 1.0-2.0 dL/g)
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D, L-Lactide Homopolymers

4100-1	LACTOMAXX® DL100 (D, L-Lactide Homopolymer, IV 0.2-0.5 (DL/g)
4100-2	LACTOMAXX® DL100 (D, L-Lactide Homopolymer, IV 0.5-1.0 (DL/g)

D, L-Lactide/Caprolactone Copolymer

4182	LACTOMAXX® 820 (DLPLA/PCL 80/20, IV 0.5-1.0 (DL/g)
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D, L-Lactide/Glycolide Copolymers

4255-1	LACTOMAXX® LDLG550 (DLPLA/PGA 50/50, IV 0.2-0.5 (DL/g)
4255-2	LACTOMAXX® LDLG550 (DLPLA/PGA 50/50, IV 0.5-1.0 (DL/g)
4255-3	LACTOMAXX® LDLG550 (DLPLA/PGA 50/50, IV 1.0-1.5 (DL/g)
4281-1	LACTOMAXX® LDLG8515 (DLPLA/PGA 85/15, IV 0.2-0.5 (DL/g)
4281-2	LACTOMAXX® LDLG8515 (DLPLA/PGA 85/15, IV 0.5-1.0 (DL/g)
4282	LACTOMAXX® LDLG820 (DLPLA/PGA 80/20, IV 1.0-2.0 (DL/g)
4272-1	LACTOMAXX® LDLG7525 (DLPLA/PGA 75/25, IV 0.2-0.5 (DL/g)
4272-2	LACTOMAXX® LDLG7525 (DLPLA/PGA 75/25, IV 0.5-1.0 (DL/g)
4263	LACTOMAXX® LDLG6535 (DLPLA/PGA 65/35, IV 0.5-1.0 (DL/g)

Glycolide Homopolymer

2100	GLYCOMAXX® 100 (Glycolide Homopolymer, IV 1.0-2.0 dL/g)
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Glycolide/Lactide Homopolymers

23955	GLYCOMAXX® GL955 (PGA/PLA 95/5, IV 1.2-2.0 dL/g)
2391	GLYCOMAXX® GL910 (PGA/PLA 90/10, IV 1.2-2.0 dL/g)
2381	GLYCOMAXX® GL8515 (PGA/PLA 85/15, IV 1.2-2.0 dL/g)

2382	GLYCOMAXX® GL820 (PGA/PLA 80/20, IV 1.2-2.0 dL/g)
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Glycolide/Trimethylene Carbonate Copolymers

2564-1	GLYCOMAXX® 640 (PGA/TMC 60/40, IV 1.0-2.0 dL/g)
2564-2	GLYCOMAXX® 640 (PGA/TMC 40/60, IV 1.0-2.0 dL/g)
2565	GLYCOMAXX® 370 (PGA/TMC 30/70, IV 1.0-2.0 dL/g)

Glycolide/Caprolactone Copolymers

2191	GLYCOMAXX® GC910 (PGA/PCL 90/10, IV 1.0-2.0 dL/g)
2172	GLYCOMAXX® GC7525 (PGA/PCL 75/25, IV 1.0-2.0 dL/g)
2173	GLYCOMAXX® GC730 (PGA/PCL 70/30, IV 1.0-2.0 dL/g)
2164	GLYCOMAXX® GC640 (PGA/PCL 60/40, IV 1.0-2.0 dL/g)
2154	GLYCOMAXX® GC5545 (PGA/PCL 55/45, IV 1.0-2.0 dL/g)

Polydioxanone Homopolymers

6100-1	DIOXOMAXX® 100 (Polydioxanone Homo Polymer, IV 1.0-1.5 dL/g)
6100-2	DIOXOMAXX® 100 (Polydioxanone Homo Polymer, IV 1.5-2.2 dL/g)
6100-D	DIOXOMAXX® 100 (Polydioxanone Dyed Homo Polymer, IV 2.2-3.2 dL/g)

Polydioxanone/Glycolide Copolymers

6291	DIOXOMAXX® PG910 (PDS/PGA 90/10, IV 1.5-2.5 dL/g)
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Polydioxanone/L-Lactide Copolymers

63955	DIOXOMAXX® PL955 (PDS/PLA 95/5, IV 1.0-2.2 dL/g)
63928	DIOXOMAXX® PL928 (PDS/PLA 92/8, IV 1.0-2.0 dL/g)
638515	DIOXOMAXX® PL8515 (PDS/PLA 85/15, IV 2.0-3.0 dL/g)
6372	DIOXOMAXX® PL7525 (PDS/PLA 75/25, IV 1.0-2.0 dL/g)
6364	DIOXOMAXX® PL649 (PDS/PLA 60/40 IV 1.0-2.0 dL/g)

Polydioxanone/Polytrimethylene Carbonate Copolymers

6581	DIOXOMAXX® PT81 (PDS/TMC 85/15, IV 1.0-2.0 dL/g)
6573	DIOXOMAXX® PT73 (PDS/TMC 70/30, IV 1.0-2.0 dL/g)

Paradioxanone/L-Lactide/Glycolide Copolymer

623955	DIOXOMAXX® PGL9055 (PDS/PGA/PLA 90/5/5, IV 1.0-2.0 dL/g)
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Trimethylene Carbonate (TMC) Homopolymers

5100-1	CARBOMAXX® 100 (TMC Homopolymer, IV 0.5-1.0 dL/g)
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5100-2	CARBOMAXX® 100 (TMC Homopolymer, IV 1.0-2.0 dL/g)
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Trimethylene Carbonate/Caprolactone Homopolymers

5191	CARBOMAXX® TC910 (PTMC/PCL 90/10, IV 1.0-2.0 dL/g)
5182-1	CARBOMAXX® TC820 (PTMC/PCL 80/20, IV 0.2-0.5 dL/g)
5182-2	CARBOMAXX® TC820 (PTMC/PCL 80/20, IV 1.0-2.0 dL/g)
5183	CARBOMAXX® TC640 (PTMC/PCL 60/40, IV 1.0-2.0 dL/g)
5184	CARBOMAXX® TC550 (PTMC/PCL 50/50, IV 1.0-2.0 dL/g)
5185	CARBOMAXX® TC460 (PTMC/PCL 40/60, IV 1.0-2.0 dL/g)
5186	CARBOMAXX® TC280 (PTMC/PCL 20/80, IV 1.0-2.0 dL/g)
5187	CARBOMAXX® TC190 (PTMC/PCL 10/90, IV 1.0-2.0 dL/g)

Trimethylene Carbonate/L-Lactide Copolymers

5391-1	CARBOMAXX® TL910 (PTMC/PLA 90/10, IV 0.2-0.5 dL/g)
5391-2	CARBOMAXX® TL910 (PTMC/PLA 90/10, IV 0.5-1.5 dL/g)
5382	CARBOMAXX® TL820 (PTMC/PLA 80/20, IV 0.5-1.5 dL/g)
5364	CARBOMAXX® TL640 (PTMC/PLA 60/40, IV 0.5-1.0 dL/g)
5365	CARBOMAXX® TL550 (PTMC/PLA 50/50, IV 1.0-2.0 dL/g)

Trimethylene Carbonate/D, L-Lactide Copolymers

5454	CARBOMAXX® TDL820 (PTMC/DLPLA 80/20, IV 1.0-2.0 dL/g)
5455-1	CARBOMAXX® TDL550 (PTMC/DLPLA 50/50, IV 0.5-1.0 dL/g)
5455-2	CARBOMAXX® TDL550 (PTMC/DLPLA 50/50, IV 1.0-2.0 dL/g)
5456	CARBOMAXX® TDL460 (PTMC/DLPLA 40/60, IV 1.0-2.0 dL/g)
5457	CARBOMAXX® TDL280 (PTMC/DLPLA 20/80, IV 1.0-2.0 dL/g)