



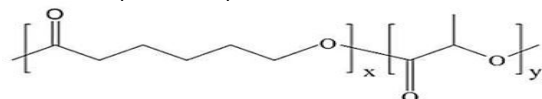
PolyInks®-PLCL-W 1 g powder

Catalog Number: IR-203

Specification

Chemical name: Poly(lactide-co-ε-caprolactone) (PLCL)

Formula: $(C_8H_{16}O_6)_n$



Molecular weight: ca. 520,000

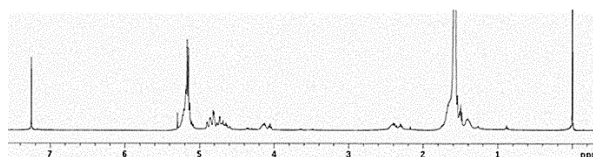
Appearance: White solid power

Overview

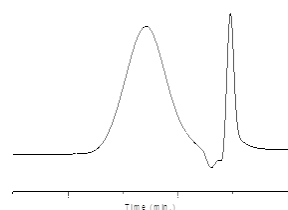
The PolyInks®-PLCL is specifically developed and optimized for bioprinting of 3D structures. The PolyInks®-PLCL is a biodegradable copolymer of lactide and caprolactone. PolyInks®-PLCL-W is designed for fast degradable polymer.

Characterizations

¹H-NMR

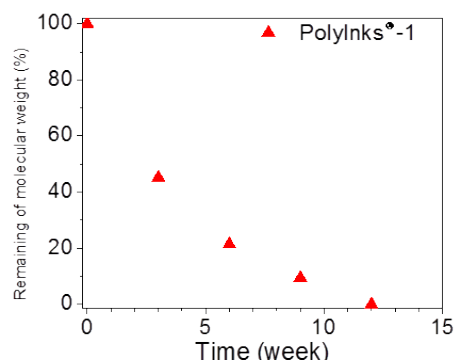


GPC: PDI < 2.0



DSC: Tg ~30°C

Degradation rate: MW₅₀ ~ 2.9 weeks



Storage & Handling

PolyInks®-PLCL can be stored at ambient room temperature and must keep away from moisture. PolyInks®-PLCL is hygroscopic, and moisture should be avoided. Therefore, storage at -20°C and non-moisture condition is recommended for a long-term storage.

Instructions for Use

1. Prior to printing process, PolyInks®-PLCL is dried at 30 – 40°C for 2 – 4 hours to minimize moisture (recommended)
2. Load PolyInks®-PLCL into the extruder and set the printing parameters as recommended below.

Pressure (kPa)	Scan speed (mm/min)	Printing temperature (°C)
100 -900	60 – 180	80 – 165

Caution

This product is for research use only. Not approved for use in diagnostic or therapeutic procedures.

For support visit www.innoregen.com or E-mail info@innoregen.com