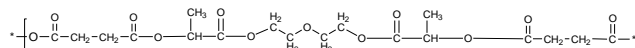


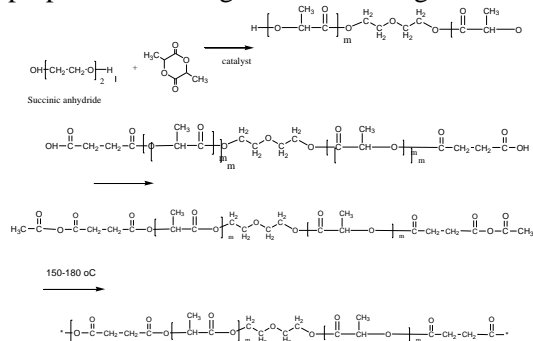
Polyanhydride based on polylactide (DL form)

Structure:



$M_n \times 10^3$ (g/mol) (total)	36.0
M_w/M_n	4.0
M_n of DL polylactide chain	5800
Number of repeating polylactide chain	6 by GPC
Number of repeating polylactide chain based on terminal end groups	8 by HNMR

The polyanhydride based on polylactide (DL) is prepared according to the following reaction scheme:



The product was characterized by size exclusion chromatography (SEC) runs in DMF and ^1H NMR solution viscosity in CdCl_2 .

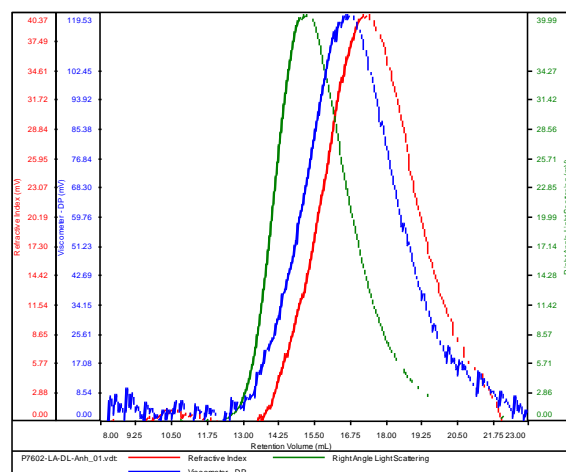
The polyanhydride is soluble in chloroform, DMF. And it precipitated out from ether and hexanes.

Following Photo shows that Fiber can be drawn by melt process:



P7602-LA-(DL) Anh

Conc	3.6320
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80k_2018-04-02-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P7602-LA-DL-Anh_01.vdt	35,915	143,382	41,308	3.992	1.4824

**S. K. Varshney, Olexander Hnojewyl, J.X. Zhang,
and Patrick Rivelli, US Pat 7,674,285 B2 2010
Poly anhydride Polymers and Their Uses inn
Biomedical Devices And 2009/0253806A1**