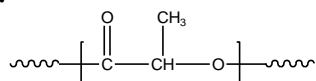


**Sample Name:** Polylactide

**Sample #:** P6463A-LA (DL-Form)

**Structure:**

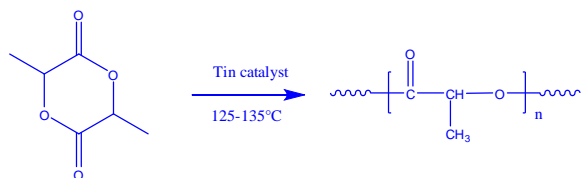


**Composition:**

$M_n \times 10^3$	PDI
372.0	1.64
$T_g$	54°C

**Synthesis Procedure:**

The polymerization of D/L-Lactide was initiated with an Tin catalyst and the reaction was carried out without solvent.



**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography with light scattering and viscometer detectors.

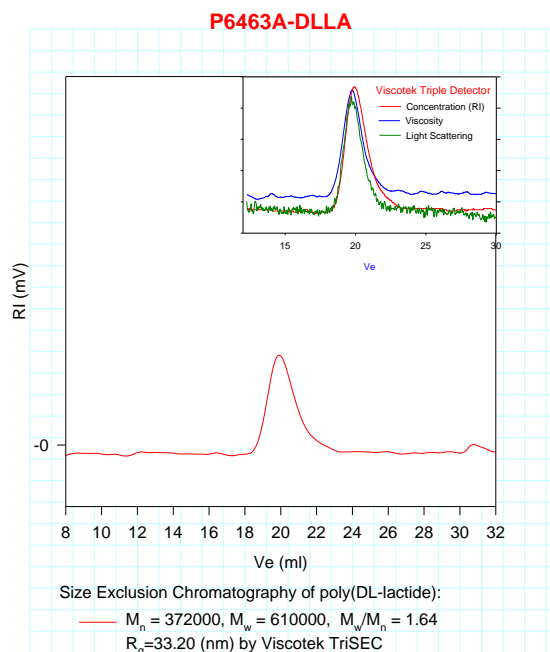
**Thermal analysis:**

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature ( $T_g$ ).

**Solubility:**

Poly(DL-lactide) is soluble THF,  $\text{CHCl}_3$  and  $\text{CH}_2\text{Cl}_2$ . The polymer is insoluble in methanol, hexane and ether.

**SEC of Homopolymer:**



**DSC thermogram for the sample:**

