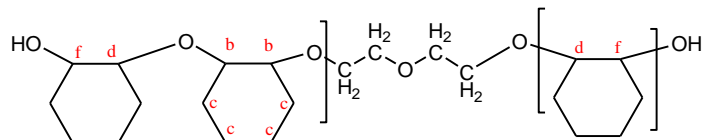


Sample Name: α,ω -dihydroxy-terminated poly (cyclohexene carbonate)

Sample #: P41274-CHO

Structure:



Composition:

Mn x 10 ³	Mw/Mn
10.0	2.2

Thermal properties:

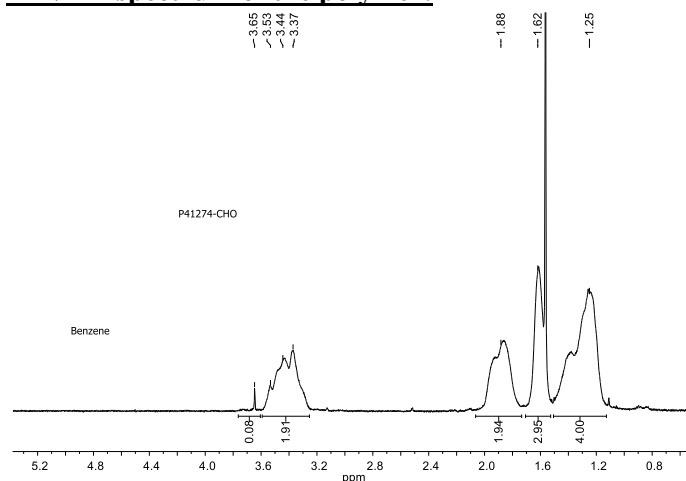
Glass transition temperature	T _g = 58 °C
Onset of decomposition (5% wt loss):	T _{on} = 232 °C

Characterization:

The product was characterized by size exclusion chromatography (SEC) using THF as an eluant, And by proton NMR in chloroform-d.

Thermal analysis was performed on TA Instruments TGA-550 Discovery (TGA) and Q100 differential scanning calorimeter (DSC). **TGA:** The degradation temperature was measured at a scan rate of 5°C/min under a nitrogen atmosphere. **DSC:** The glass transition temperature (T_g) of the polymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

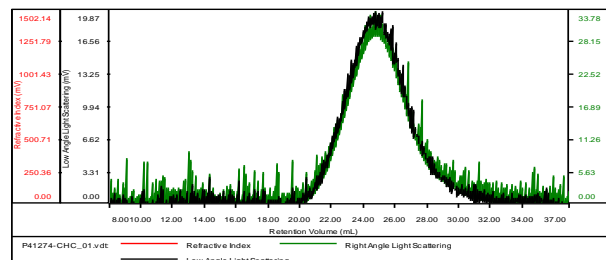
¹HNMR spectrum of the polymer:



SEC elugram of the Sample:

P41274-CHC

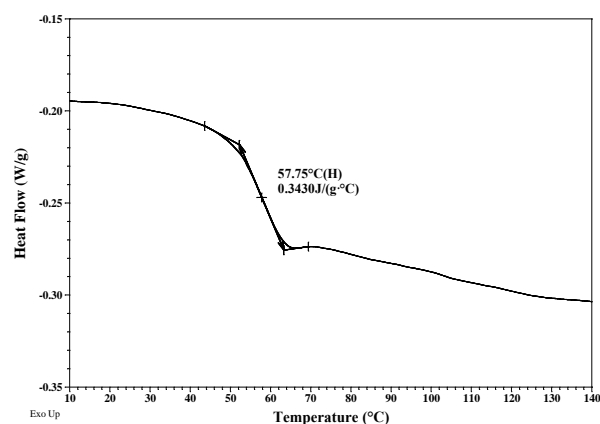
Concentration (mg/mL)	5.6862
Sample dn/dc (mL/g)	0.1850
Method File	PS99K-May-2018-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41274-CHC_01.v	9,862	21,584	2.189	0.3781	12,480

DSC thermogram of the polymer:

Sample: 41274-CHO (final) File: P41274_CHO.001
Size: 3.6000 mg



TGA thermogram of the polymer:

