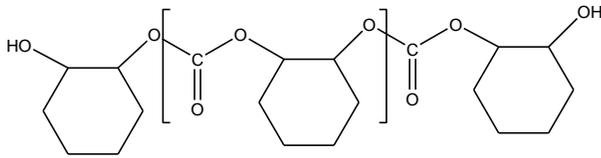


Sample Name: α,ω -dihydroxy-terminated poly(cyclohexene carbonate)

Sample #: P41269-CHC

Structure:



Composition:

Mn x 10 ³	Mw/Mn
11.5	5.9

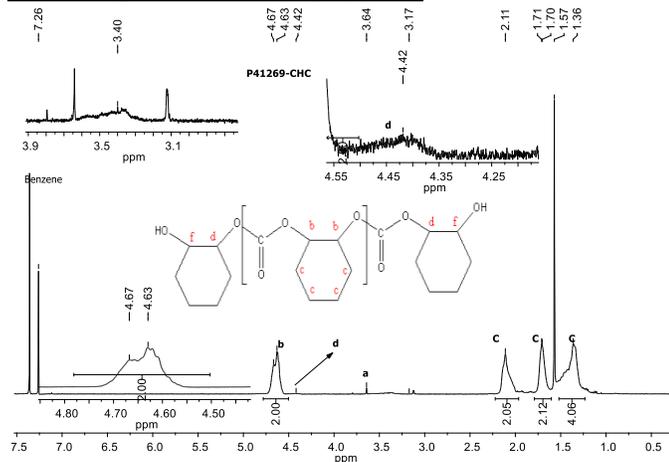
Glass transition temperature	T _g = 104 °C
Decomposition temperature (5% wt loss):	T _{on} = 256 °C

Characterization:

The product was characterized by size exclusion chromatography (SEC) using THF as an eluant, And by HNMR in CdCl₂

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 10°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.

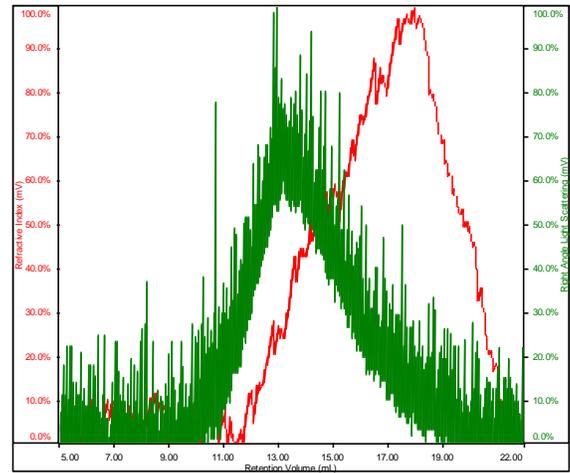
HNMR spectrum of the polymer:



SEC elugram of the Sample:

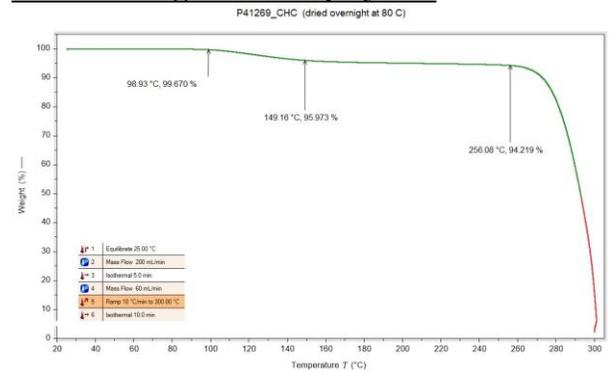
P41269-CHO

Conc	0.3920
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41269-CHO_01(86).vdt	11,618	68,760	9,900	5.918	4.0763

TGA thermogram of the polymer:



DSC thermogram (2nd heating scan):

