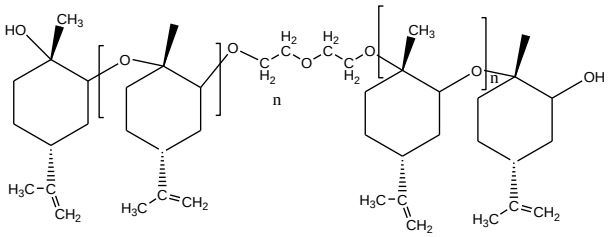
Sample Name: **α,ω–dihydroxy-terminated poly(limonene Oxide)**

Sample #: **P41283-LimO**

Structure:



Composition:

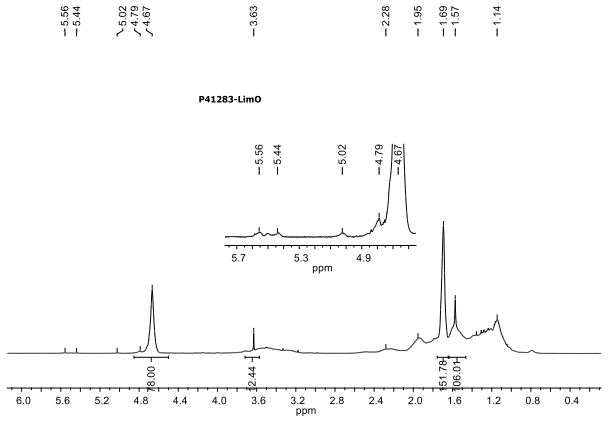
Mn x 10^3	Mw/Mn
6.0	1.4

Glass transition temperature:	T_g = 61 °C
Onset of decomposition temperature:	$T_{on} \geq 210$°C

Characterization:
The product was characterized by size exclusion chromatography (SEC) using THF as an eluant, and by HNMR in CdCl3

Thermal analysis:
It 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.

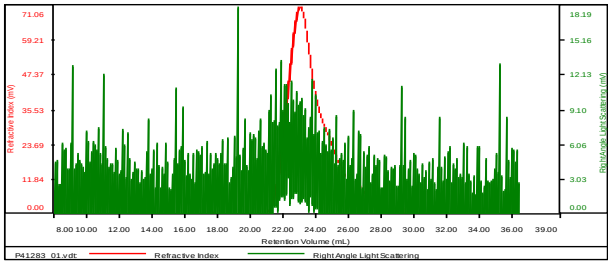
HNMR of the polymer:



SEC elugram of the Sample:

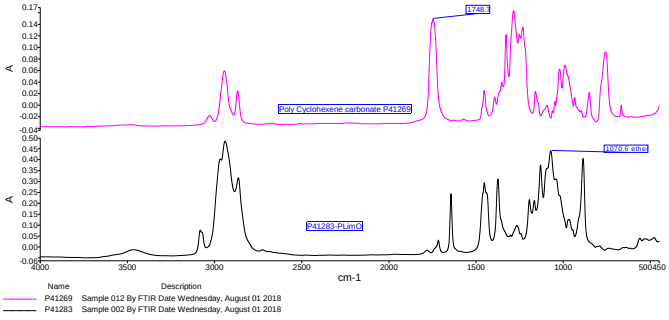
P41283-LimO

Concentration (mg/mL)	6.5604
Sample dn/dc (mL/g)	0.1700
Method File	PS80K-august2017-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF

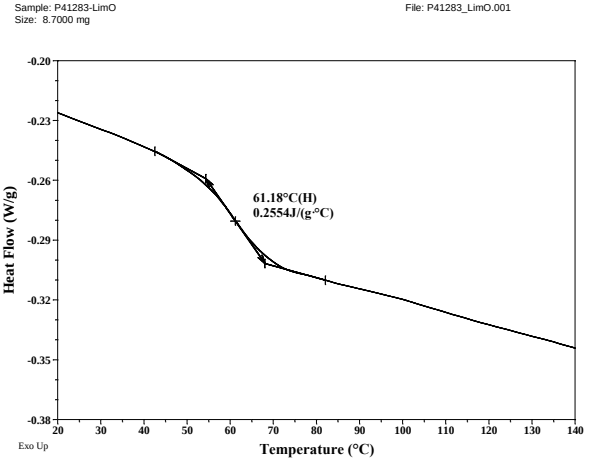


Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41283_01.vdt	6,071	8,651	1.425	0.0363	5,729

FTIR of the polymer:



DSC thermogram of the polymer:



TGA thermogram of the polymer: