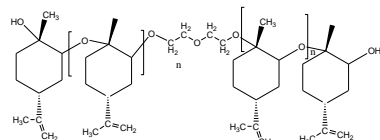


Sample Name: α,ω -dihydroxy-terminated poly(limonene Oxide)

Sample #: P41282-LimO

Structure:



Composition:

Mn x 10 ³	Mw/Mn
1.8	1.48
Glass transition temperature:	T _g = 53 °C
Onset of decomposition temperature:	T _{on} ≥ 260 °C

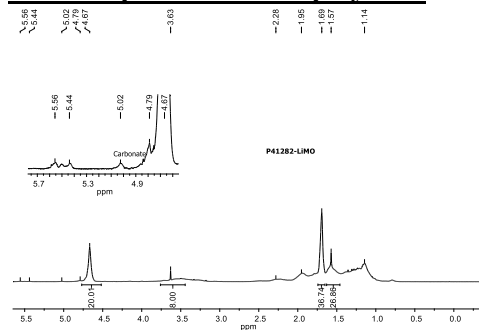
Characterization:

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

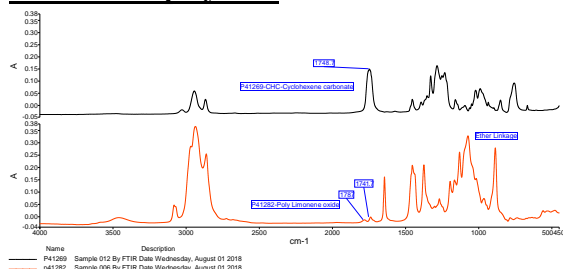
Thermal analysis:

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 spectrum of the polymer:



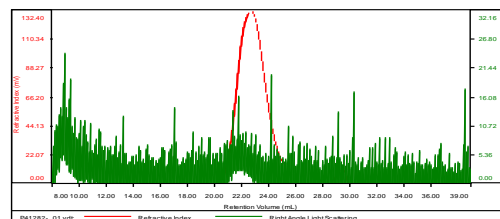
FTIR of the polymer:



SEC elugram of the Sample:

P41282-LimO

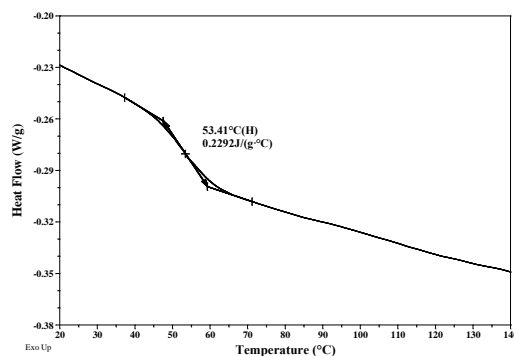
Concentration (mg/mL)	12.7909
Sample dn/dc (mL/g)	0.1700
Method File	P580K-august2017-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41282-LimO	1,758	2,607	1.483	0.0412	1,616

DSC thermogram of the polymer:

Sample: P41282-LimO File: P41282_LimO.001
Size: 7.6000 mg



TGA thermogram of the polymer:

