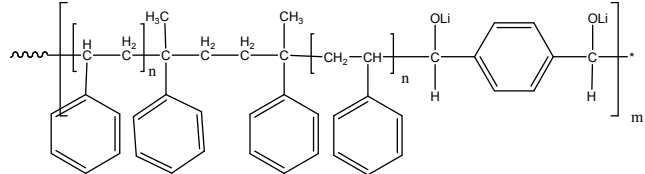


Polystyrene bearing dihydroxy groups in the center –Multi functional

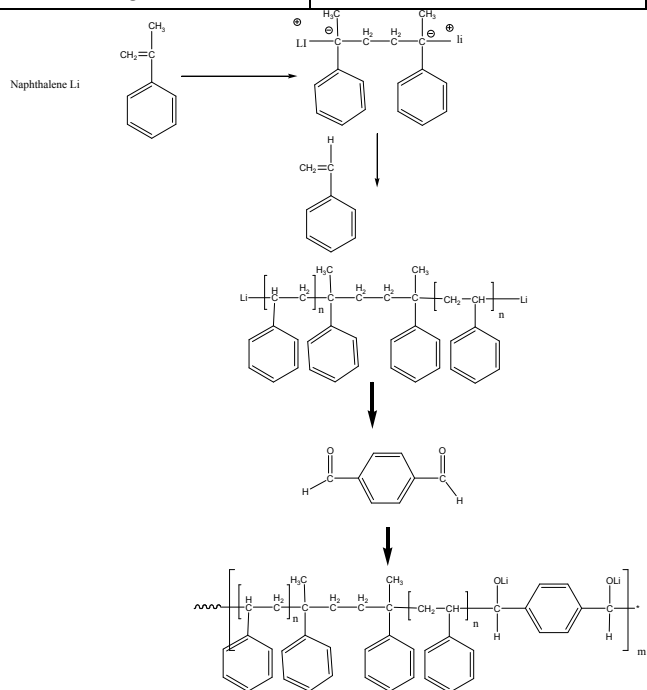
Sample #: P10095-S(2OH)_x

Structure:



Composition:

Mn x 10 ³	PDI
12.0	4.0
T _g (°C)	100



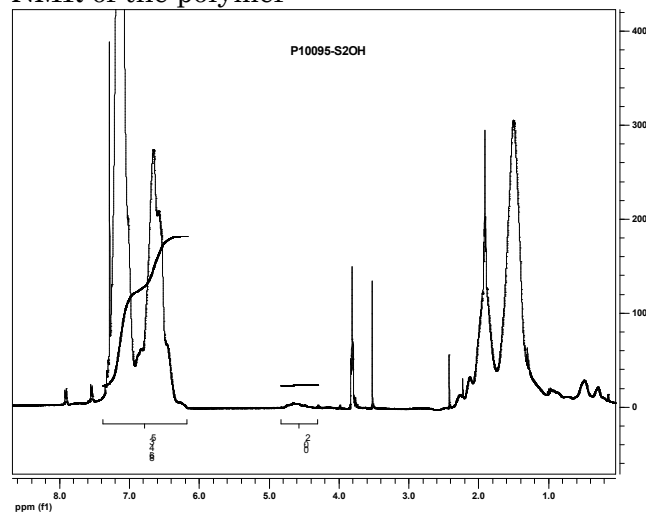
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Thermal analysis:

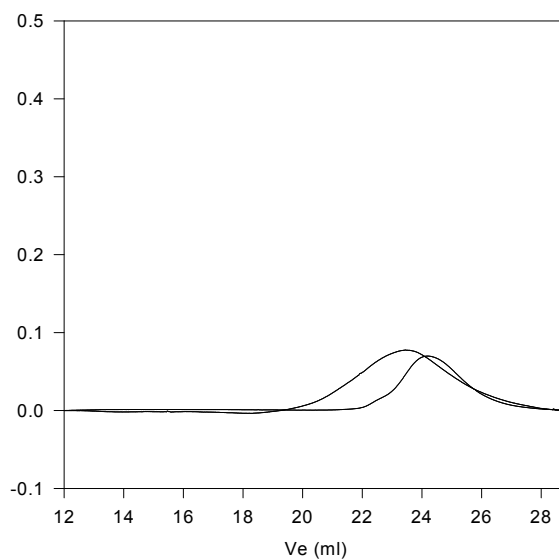
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

NMR of the polymer:



SEC for the functional polymer:

P10095-S(2OH)



Size exclusion chromatography of dihydroxy in the center polystyrene:

 $M_n=7000, M_w=11200, PI=1.6$

After linking reaction : Mn 12,000 Mw/Mn: 4.0 functionality: >1.98%

Thermogram for the polymer:

