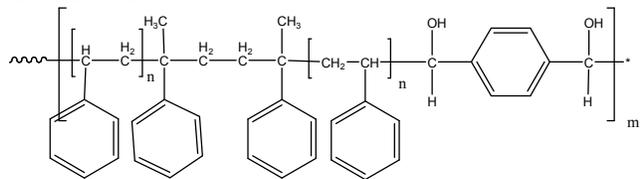


Sample Name:

Polystyrene bearing dihydroxy groups in the center –Multi functional

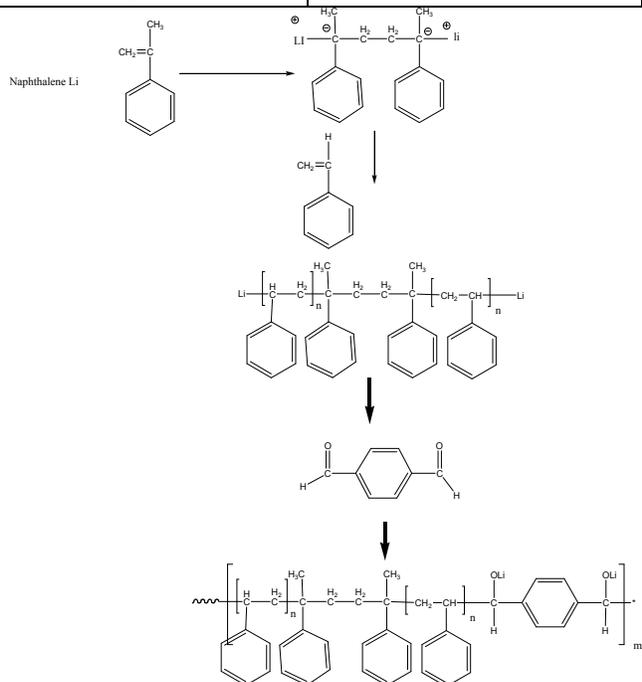
Sample #: P10096C-S(2OH)_x

Structure:



Composition:

Mn x 10 ³	PDI
33.0	3.0
T _g (°C)	

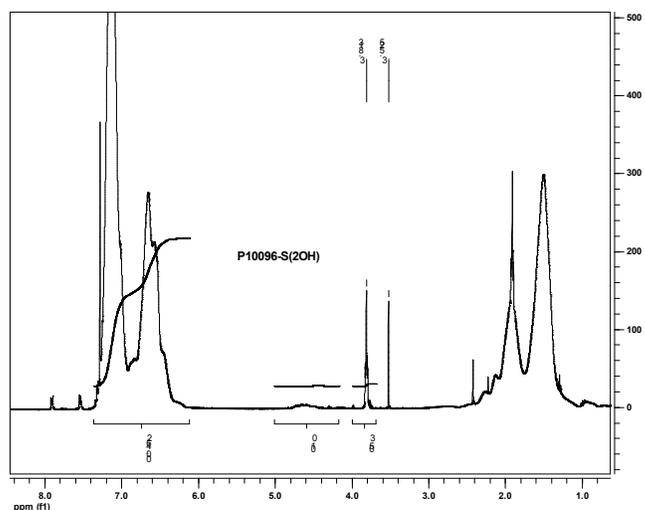


Characterization:

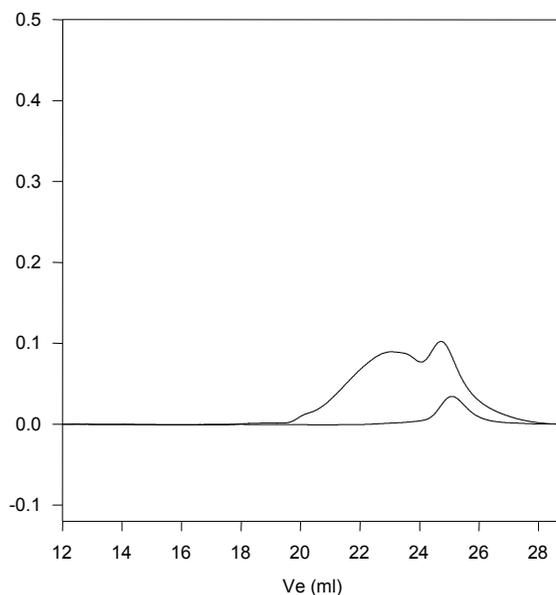
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

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).



SEC for the functional polymer: P10096C-S(2OH)



Size exclusion chromatography of dihydroxy in the center polystyrene:
M_n=5,000, M_w=6,000, PI=1.2
After linking reaction : Mn 33,000 Mw/Mn: 3.0 functionality: >1.98

+