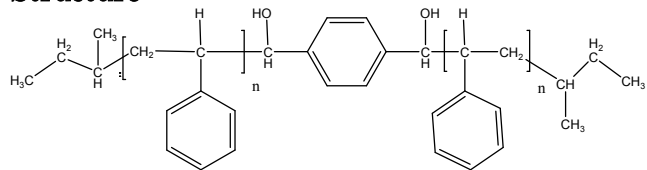


### Sample Name:

Dihydroxy group in the center of Polystyrene

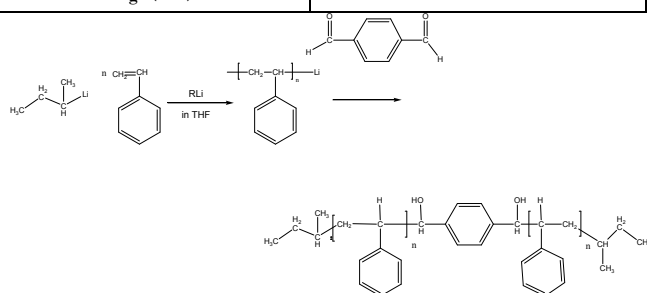
Sample #: P18121 -S(2OH)<sub>x</sub>

### Structure:



### Composition:

Mn x 10 <sup>3</sup>	PDI
10.0	1.18
T <sub>g</sub> (°C)	98 oC



### Characterization:

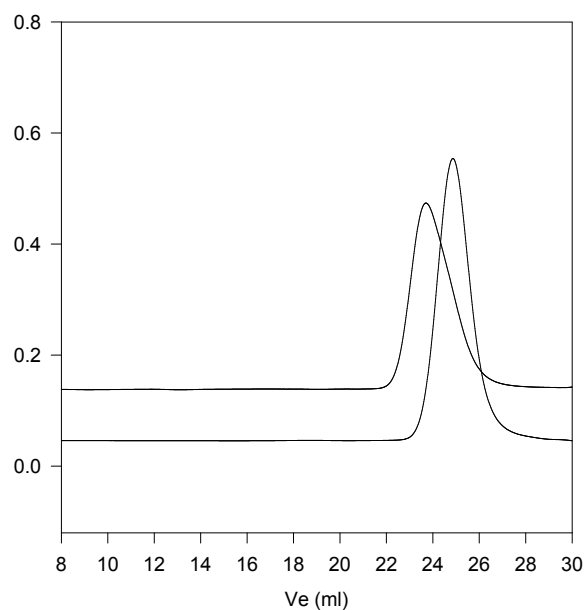
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

### 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<sub>g</sub>).

### SEC for the functional polymer:

P18121-S(2OH)



Size exclusion chromatography of dihydroxy in the center polystyrene:

M<sub>n</sub>=5,000, M<sub>w</sub>=6,000, PI=1.2

After linking reaction : Mn 10,000 Mw/Mn: 1.2 functionality: >1.98%

