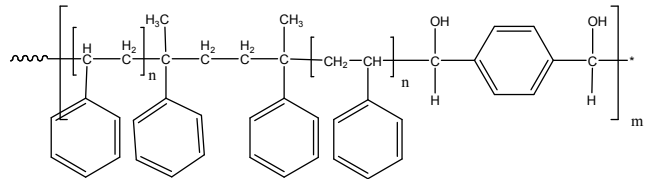


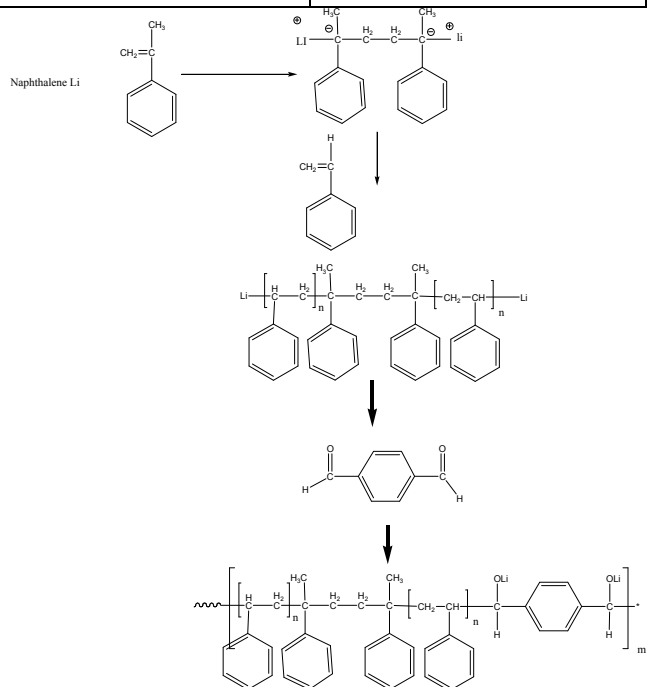
Sample Name:

Polystyrene bearing dihydroxy groups in the center –Multi functional

Sample #: P10096B-S(2OH)_x

Structure:**Composition:**

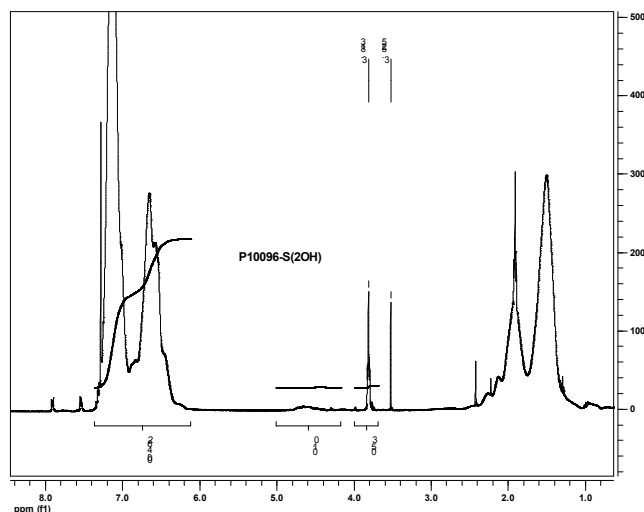
Mn x 10 ³	PDI
45.0	3.0
T _g (°C)	

**Characterization:**

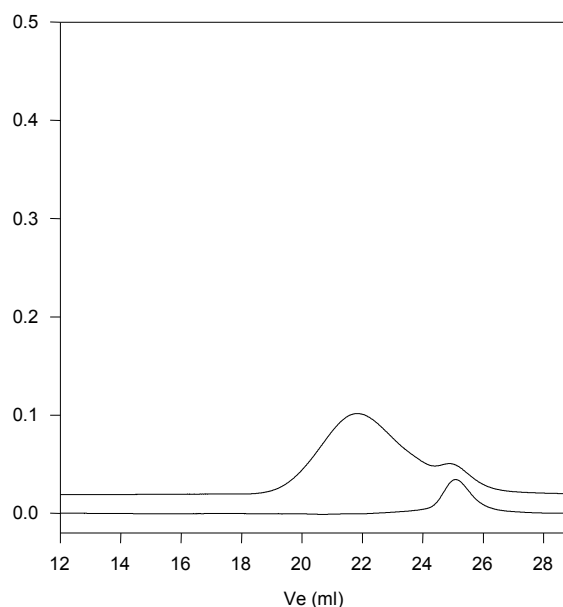
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

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:
P10096B-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 45,000 Mw/Mn: 3.0 functionality: >1.98