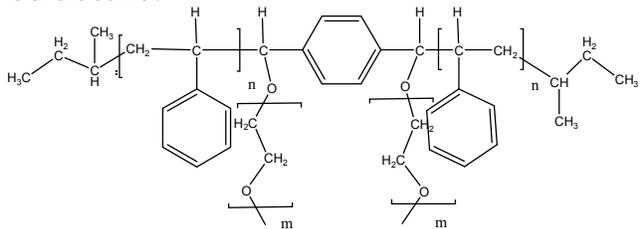


Sample Name:
Polystyrene with Poly ethylene oxide
comb like

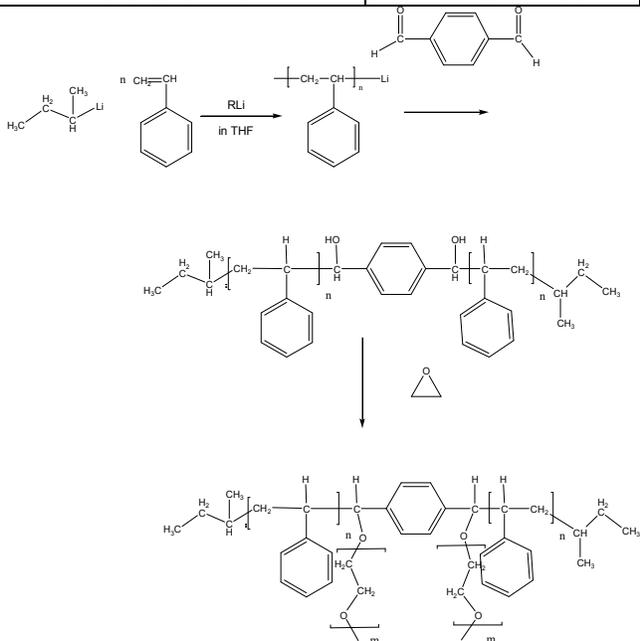
Sample #: P10092B- SEO comb

Structure:



Composition:

Mn × 10 ³	PDI
S-G EO (each branch) 5.0-b-13.5	1.28
T _m and T _c for EO block: 32 & 61 °C	PS block: T _g is not distinct



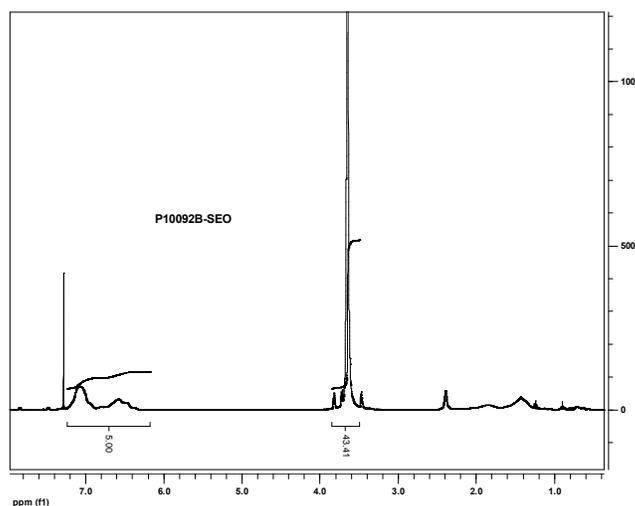
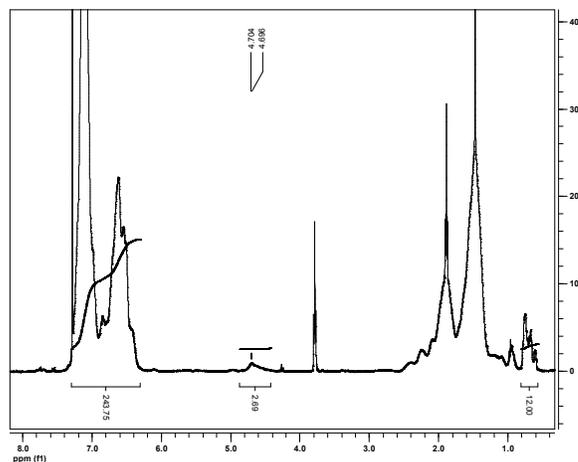
Characterization:

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 of the sample#

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The melting temperature (T_m) was taken as the maximum of the endothermic peak where as the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

HNMR of the Polystyrene bearing
Hydroxy groups in the center of polymer
chains



Melting & crystallization curve for EO

