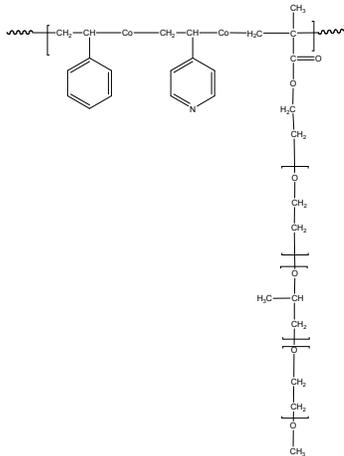


Sample Name: Random copolymer of styrene:
4vinylpyridine and triblock copolymer of EOPEO

Sample #: P10844C-S4VPEOPEOran

Structure:



Composition:

Mn × 10 ³	PDI
555.0	1.25
S: 4VP: EOPEO ratio	12:67:21
Macromonomer EOPEO-MA 0.28-b-0.85-b-0.400 Dp; 6-b-15-b-9	

Characterization:

Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

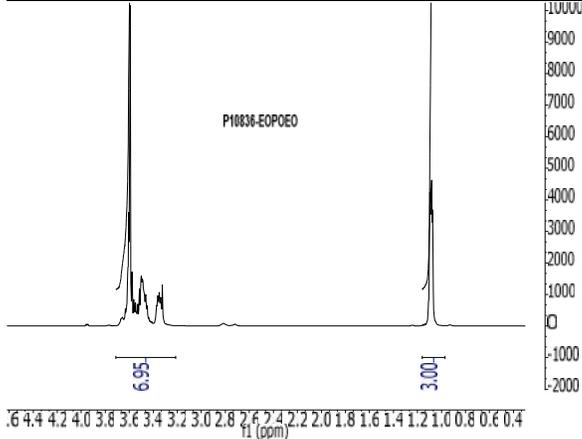
Solubility:

The polymer is soluble in chloroform, DMF, methanol and precipitates from, ether and hexane.

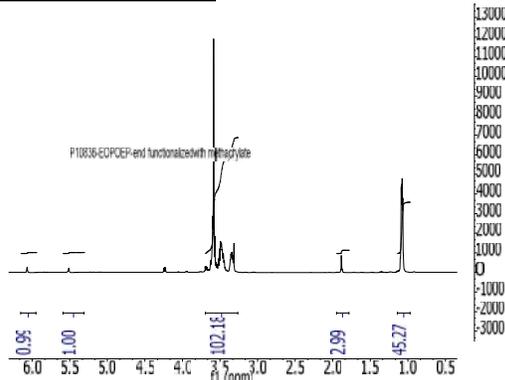
Thermal analysis

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 20°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).

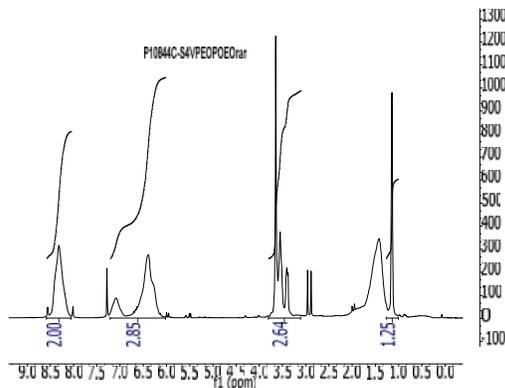
HNMR of EOPEO Macromonomer: EOPEO



HNMR of EOPEO-Methacrylate terminated macromonomer:

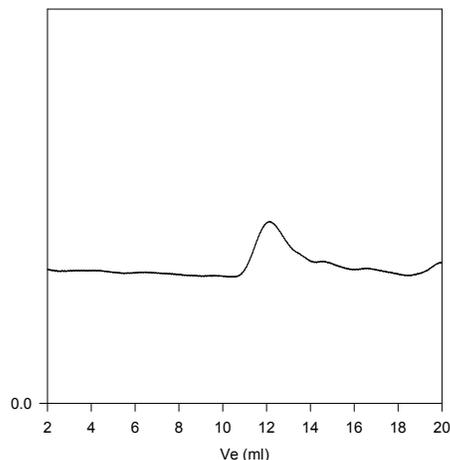


HNMR of the polymer:



SEC of the copolymer:

P10844C-S4VPEOPEOran



Size exclusion chromatography in DMF at 40 °C:

— M_n=555,000, M_w=694,000, PI=1.25 (SEC polystyrene standard as reference)

DSC thermogram for the polymer:

