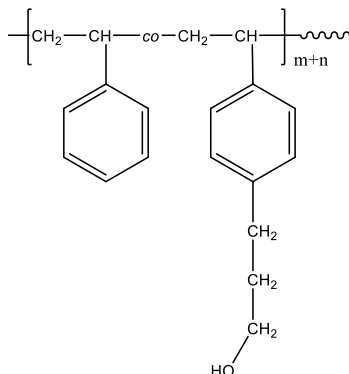


Sample Name:

Random Copolymer Poly(styrene-co-4-(3-hydroxypropyl styrene)

Sample #: **P14126-SSpropanol**

Structure:

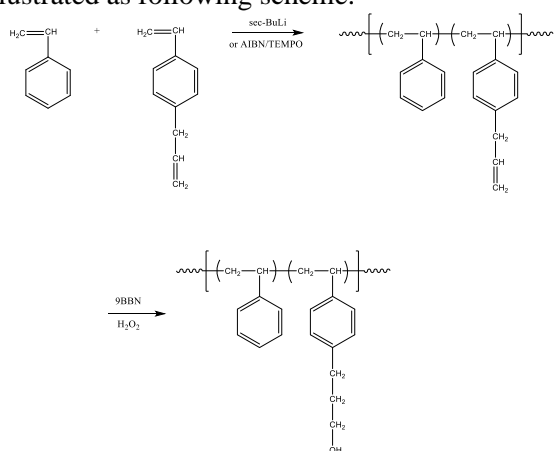


Composition:

Mn x 10 ³	OH mol%	Mw/Mn (Total)
6.0	6.0	1.2

Synthesis Procedure:

Polymer synthesized by oxidation of double bond with 9-BBN. The brief synthetic route is illustrated as following scheme.



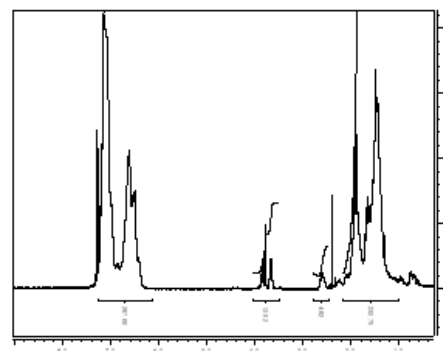
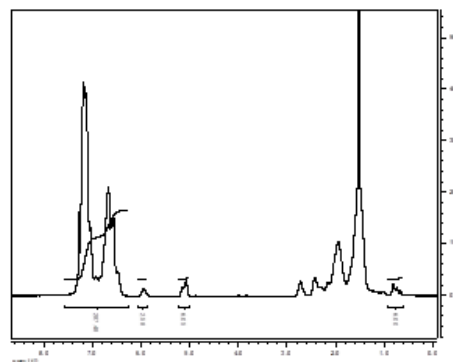
Characterization:

The molecular weight and polydispersity index (PDI) of polymers are obtained by size exclusion chromatography. The composition of grafting polymer is determined by NMR.

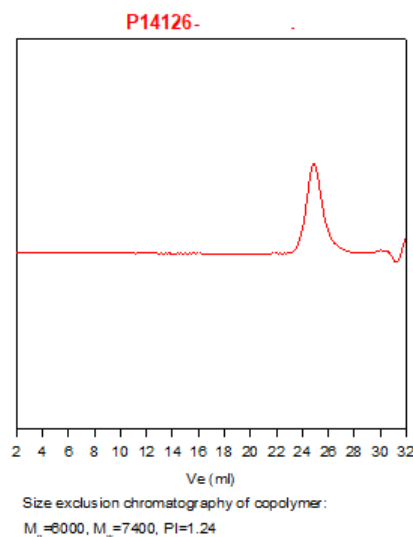
Solubility:

Polymer is soluble in THF, DMF, chloroform, and Toluene. It precipitates from hexanes.

¹H-NMR spectrum:



SEC elugram of Polymer:



Size exclusion chromatography of copolymer:
M_n=6000, M_w=7400, PI=1.24