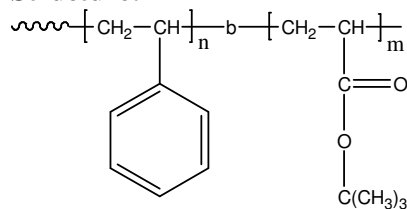


Sample Name:

Poly(Chloro methyl styrene-b-t-butyl acrylate)

Sample #: **P1377C-CMStBuA**

Structure:



Composition:

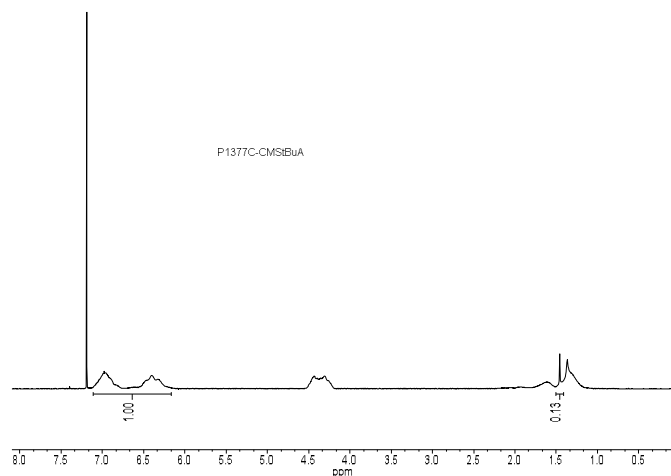
Mn x 10 ³ S-b-BuA	PDI
39.5-b-1.5	1.6

Synthesis Procedure: By radical process

Characterization:

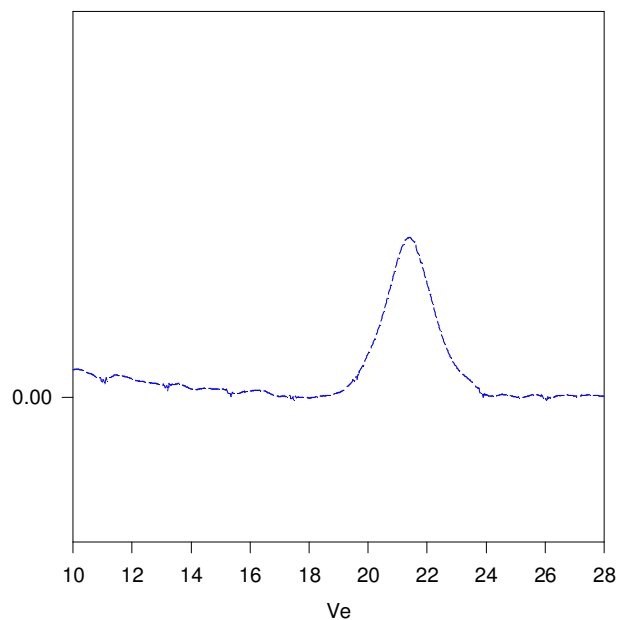
An aliquot of the polystyrene block was terminated before addition of methyl acrylate and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy by comparing the peak area of the styrene protons at 6.3-7.2 ppm with the peak area of t-butyl acrylate protons at 1.43 ppm. Block copolymer PDI is determined by SEC.

¹H-NMR Spectrum of the block copolymer



SEC of the block copolymer:

P1377C-CMStBuA



Size Exclusion Chromatography :

--- Poly(chloromethyl styrene), M_n=39,500, M_w=60500, M_w/M_n=1.54
..... Block Copolymer PCMS(39,500)-b-PtBuA(1,500), M_w/M_n=1.6
Composition from FTIR