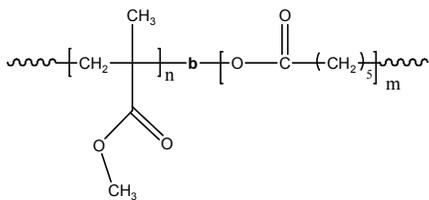


Sample Name: Poly(Methylmethacrylate-b-ε-caprolactone)

Sample #: P10467A-MMACL

Structure:



Composition:

$M_n \times 10^3$ MMA-b-CL	M_w/M_n (PDI)
5.0-b-10.0	1.10

Synthesis Procedure:

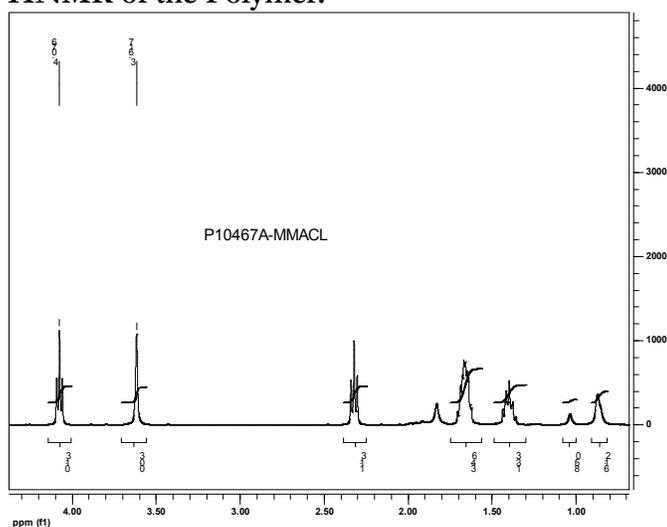
Polymer is prepared by anionic polymerization from OH terminated PMMA.

Characterization: Block copolymer composition was calculated from $^1\text{H-NMR}$ spectroscopy by comparing the peak area of the Methyl ester protons at 3.6 ppm with the peak area of $-\epsilon$ -caprolactone protons at 4.1 ppm. Block copolymer PDI is determined by SEC.

Solubility:

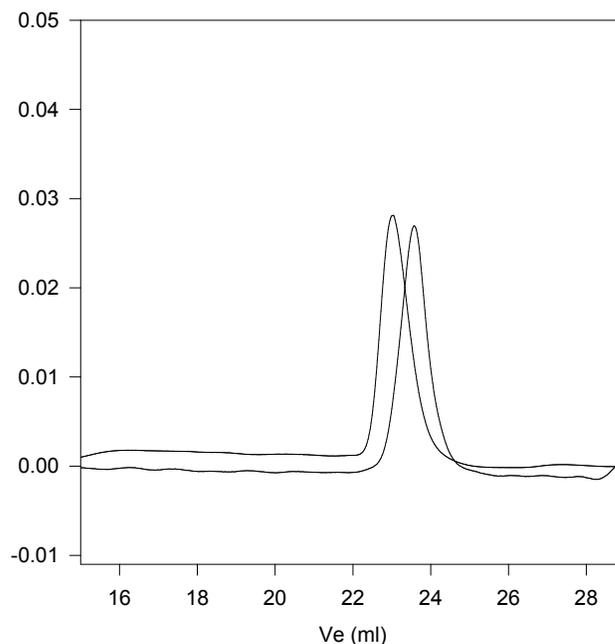
Polymer is soluble in THF, Chloroform, DMF, and precipitated in methanol and hexanes.

$^1\text{H-NMR}$ of the Polymer:



SEC profile of the block copolymer:

P10467-MMACL



— PMMA OH terminated $M_n=5000$ $PI=1.10$
— Block Copolymer PMMA(5000)-b-CL(10000), $PI=1.10$
composition from H NMR