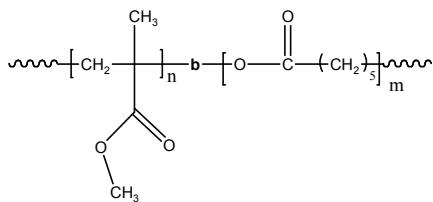


Sample Name: Poly(Methylmethacrylate-b-ε-caprolactone)

Sample #: P10467F4-MMACL

Structure:



Composition:

$M_n \times 10^3$ MMA-b-CL	M_w/M_n (PDI)
20.0-b-30.0	1.6

Synthesis Procedure:

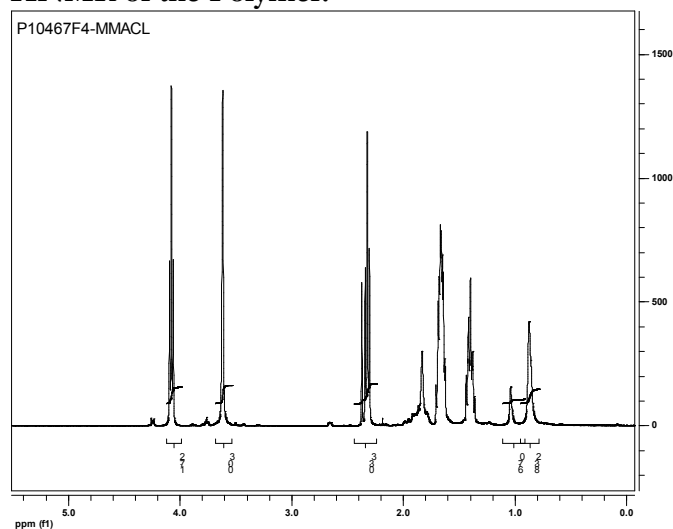
Polymer is prepared by anionic polymerization from OH terminated PMMA.

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 -ε-caprolactone protons at 4.1 ppm. Block copolymer PDI is determined by SEC.

Solubility:

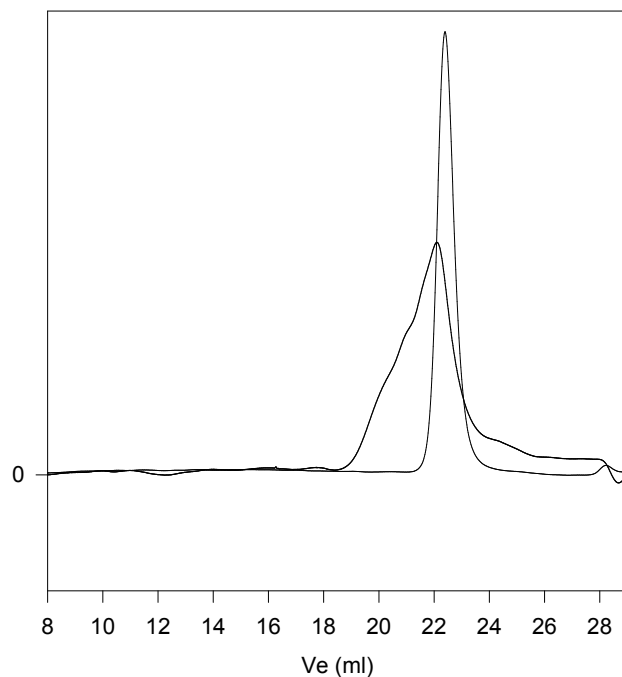
Polymer is soluble in THF, Chloroform, DMF, and precipitated in methanol and hexanes.

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



SEC profile of the block copolymer:

P10467F4-MMACL



— PMMA OH terminated $M_n=20,000$ $PI=1.10$
— Block Copolymer PMMA(20,000)-b-CL(30,000), $PI=1.6$
composition from H NMR