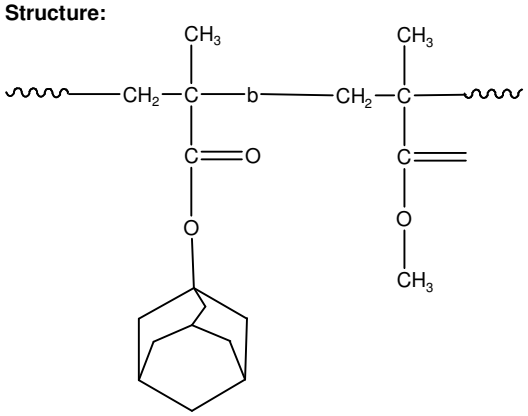
Sample Name:

Poly(1-Adamantyl methacrylate-b-methyl methacrylate)

Sample #: P13207B-ADMMAMMA

Structure:



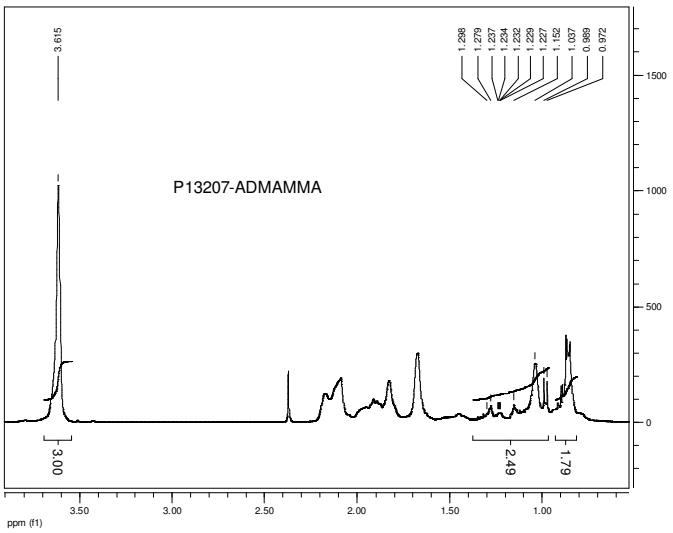
Composition:

Mn x 10^3 ADMA-b-PMMA	PDI
1.0-b-3.0	1.20

Synthesis Procedure:
Prepared by anionic process
Characterization:
An aliquot of the anionic poly(ADMA) block was terminated before addition of MMA monomer and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ^{1}H-NMR spectroscopy.

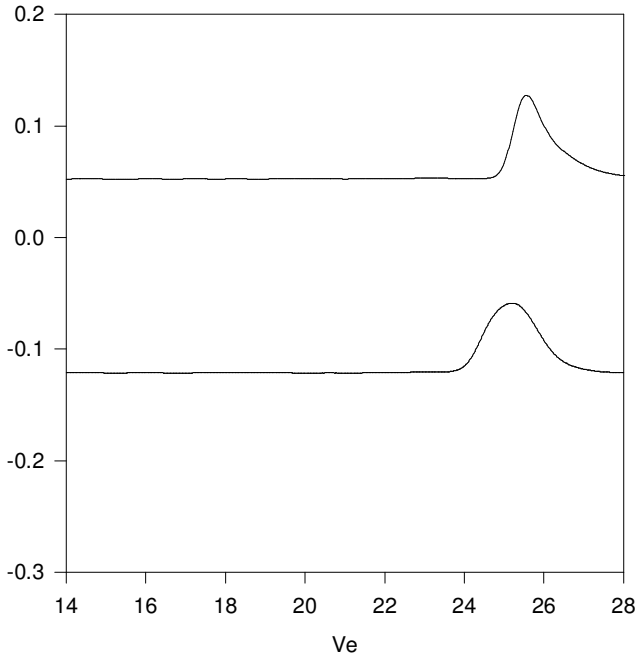
Solubility:
Polymer is soluble in THF, $CHCl_3$, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

^{1}H-NMR Spectrum of the block copolymer:



SEC of the block copolymer:

P13207B-ADMAMMA



Size Exclusion Chromatography :

—— Poly adamentnylmethacrylate, M_n=1000 M_w/M_n=1.18

—— Block Copolymer PADMA(1000)-MMA(3000), M_w/M_n=1.2