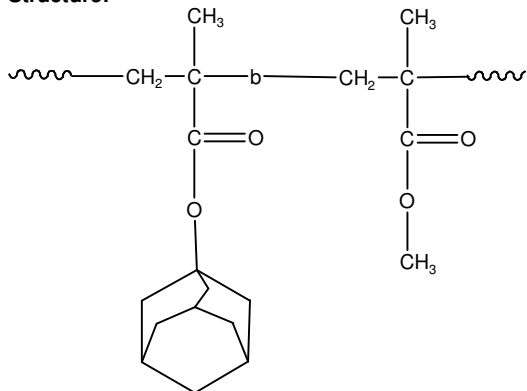


**Sample Name:**

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

**Sample #:** P13227-ADMMAMMA

**Structure:**

**Composition:**

Mn x 10 <sup>3</sup> ADMA-b-PMMA	PDI
6.0-b-7.0	1.15
Microstructure	Syndio:hetero:iso 50:40:10

**Synthesis Procedure:**

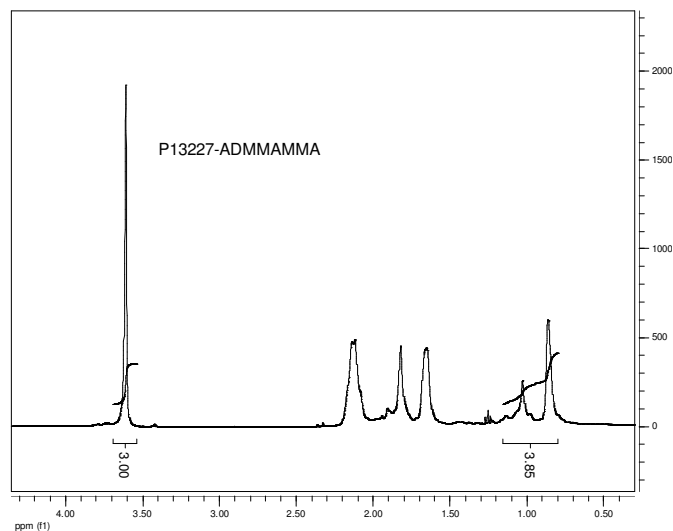
**Prepared by anionic process**

**Characterization:**

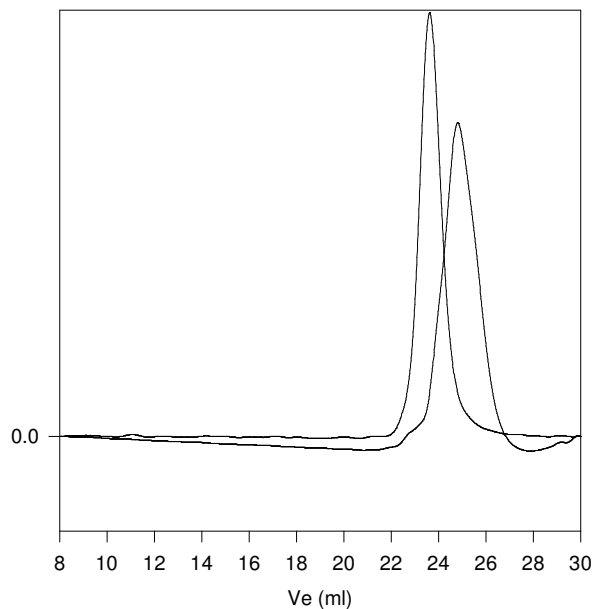
An aliquot of the anionic poly(ADMA) block was terminated before addition of MMA monomer and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy.

**Solubility:**

Polymer is soluble in THF, CHCl<sub>3</sub>, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

**<sup>1</sup>H-NMR Spectrum of the block copolymer:****SEC of the block copolymer:**

**P13227-ADMMAMMA**



Size exclusion chromatography:

— Poly(Adamantyl methacrylate), M<sub>n</sub>=6000, M<sub>w</sub>=7800, PI=1.3

— Block Copolymer PADMMA(6000)-b-PMMA(3700), PI=1.15  
composition from H NMR