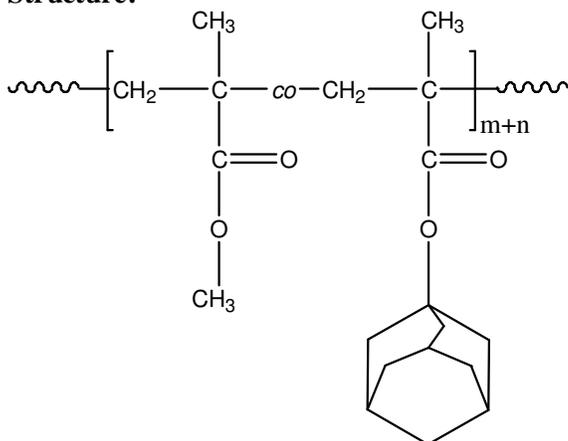


Sample Name:

Random Copolymer Poly(methyl methacrylate-co-Adamantyl methacrylate)

Sample #: P13208-MMAADM Aran

Structure:



Composition:

PMMA (96 mol%) :

Mn x 10 ³	PDI
PMMA-co-PADMA	
19.0	1.6

Synthesis Procedure:

Random Copolymer Poly(methyl methacrylate and Adamantyl methacrylate) is prepared by either anionic or group transfer or radical polymerization process.

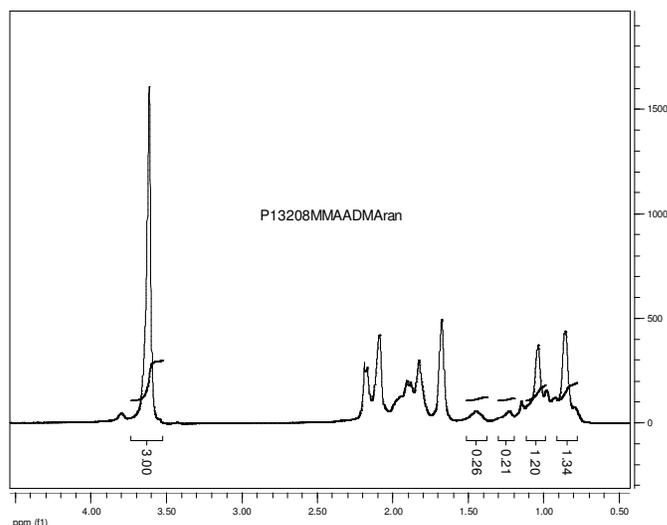
Characterization:

The polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The copolymer composition was calculated from ¹H-NMR spectroscopy by comparing the peak area for methyl ester at 3.6 ppm and adamantyl at 1.45 ppm.

Solubility:

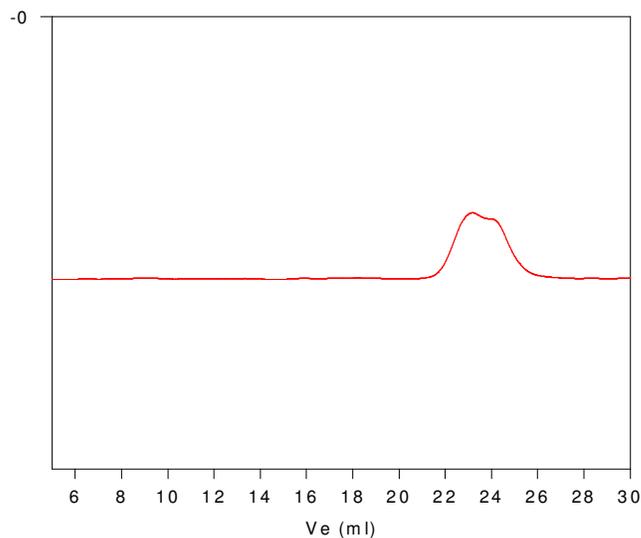
The polymer is soluble in CHCl₃, THF, DMF, toluene and precipitated out from methanol and water.

¹H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

P13208-MMAADM Aran



Size exclusion chromatograph of poly(MMA-co-ADMA):

M_w = 19,000, M_n = 30,000, M_w/M_n = 1.6

Composition by HNMR: PMMA: 96 mole%