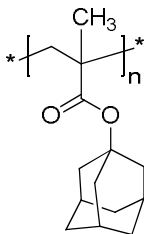


Sample Name: Poly(1-adamantyl methacrylate)

Sample # P10224-ADMMA

Structure:



Composition:

$M_n \times 10^3$ (g/mol)	9.0
M_w/M_n	1.25
Glass transition temperature:	$T_g = 195^\circ\text{C}$

Synthesis:

Poly(1-adamantyl methacrylate) is obtained by living anionic, free radical, or by group transfer (GTP) polymerization methods.

Characterization:

The molecular weight and polydispersity index (M_w/M_n) of the polymer were obtained by size exclusion chromatography (SEC) using THF as an eluent.

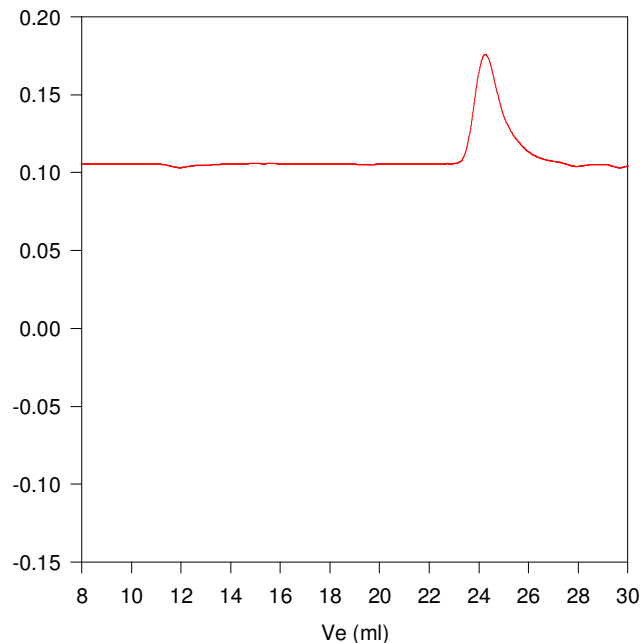
Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T_g) of the polymer was measured at a scan rate of $10^\circ\text{C}/\text{min}$ shortly after creating thermal history of the sample.

Solubility:

Poly(1-adamantyl methacrylate) is soluble in THF, chloroform, toluene, and 1,4-dioxane. The polymer precipitates from hexanes, methanol, and ethanol.

SEC elugram of the polymer:

P10224-ADMMA



Size exclusion chromatograph of Poly adamantyl methacrylate:

$M_n=9,000$, $M_w=11,3000$, $PI=1.25$

DSC thermogram (2nd heating scan, $10^\circ\text{C}/\text{min}$):

