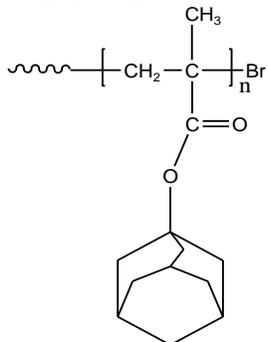


Sample Name:

Bromo functionalized Poly 1-Adamantyl methacrylate

Sample #: P13250-ADMMABr

Structure:



Composition:

$M_n \times 10^3$	PDI
4.5	1.5
T_g (°C)	219

Synthesis Procedure:

Bromo terminated poly(1-Adamantyl methacrylate) was prepared by controlled radical process.

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was verified by FTIR/HNMR depending on the molecular weights. Furthermore, the quantitative yield of the end functionalization was also proven in the extinction of the polymer in the ATRP process to synthesize different di-block copolymers.

Thermal analysis:

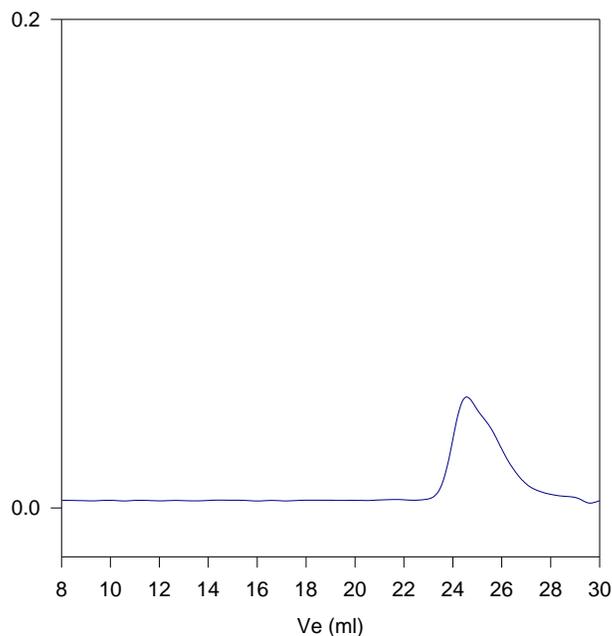
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Polymer is soluble in THF, $CHCl_3$ and toluene. It is precipitated out from methanol, ethanol, hexane and ether.

SEC of Sample:

P13250-ADMMABr



— $M_n=4500$, $M_w=6800$, $M_w/M_n=1.5$

Thermogram for the polymer:

