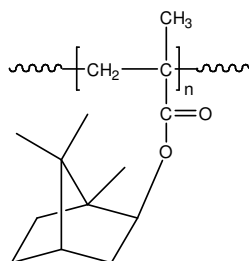


Sample Name: Poly(isobornyl methacrylate)

Sample #: P3631F3-iBMA

Structure:

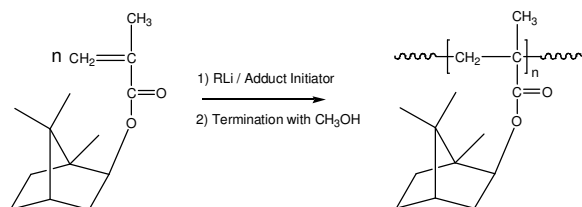


Composition:

$M_n \times 10^3$	PDI
10.0	1.26
$T_g (^{\circ}C)$	175

Synthesis Procedure:

Poly(isobornyl methacrylate) is obtained by living anionic polymerization of isobornyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



Characterization:

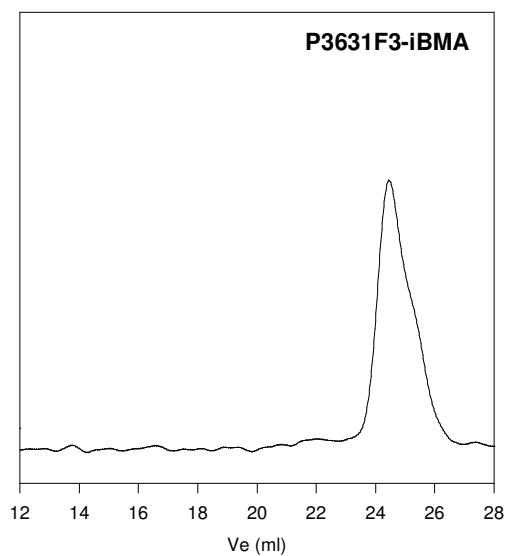
The molecular weight and polydispersity index (PDI) of Poly(isobornyl methacrylate) are obtained by size exclusion chromatography.

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of $10^{\circ}C/min$. 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:

Poly(isobornyl methacrylate) is soluble in THF, $CHCl_3$, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

SEC of Homopolymer:



Size exclusion chromatograph of Poly isobornyl metacrylate:

$M_n=10000$, $M_w=12600$ PI=1.26

DSC thermogram for the polymer:

