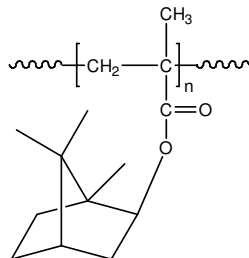


Sample Name: Poly(isobornyl methacrylate)

Sample #: p3632F3-iBMA

Structure:

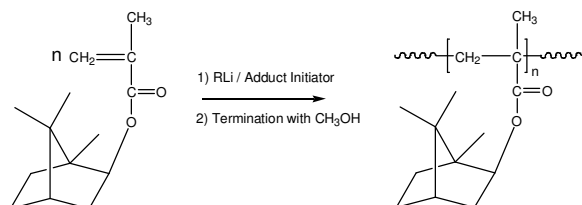


Composition:

$M_n \times 10^3$	PDI
11.0	1.20
T_g (°C)	168

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:

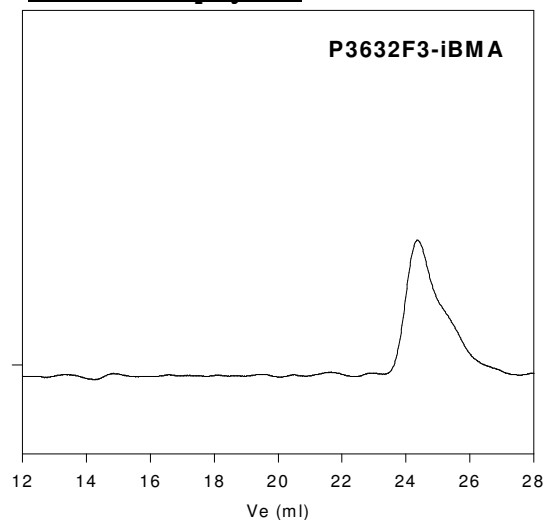
The molecular weight and polydispersity index (PDI) of Poly(isobornyl methacrylate) are obtained by size exclusion chromatography.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of $10^\circ\text{C}/\text{min}$. The inflection glass transition temperature (T_g) has been considered.

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:

$M_n = 11000$, $M_w = 13000$ $PI = 1.2$

DSC thermogram for the polymer:

