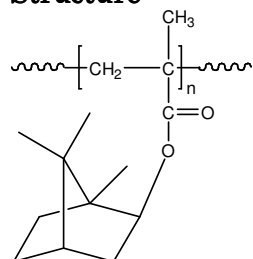


Sample Name: Poly(isobornyl methacrylate)

Sample #: p3634F4-iBMA

Structure:

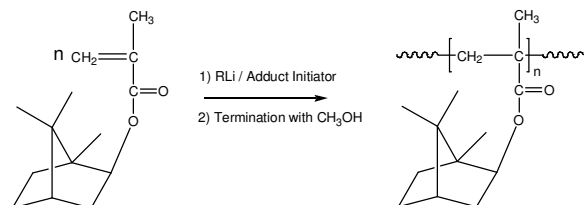


Composition:

$M_n \times 10^3$	PDI
130.0	1.25
$T_g (^{\circ}C)$	201

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:

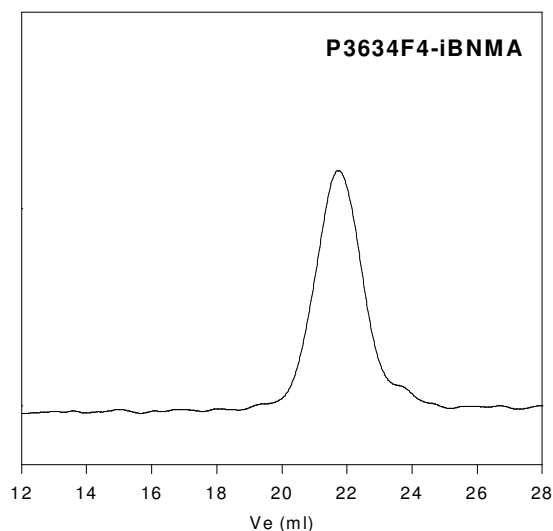
The molecular weight and polydispersity index (PDI) of Poly(isobornyl methacrylate) are obtained by size exclusion chromatography.

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°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, CHCl₃, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

SEC of Homopolymer:



Size exclusion chromatograph of Poly isobornyl methacrylate:
 $M_n=130000$ $M_w=160000$ PI=1.25

DSC thermogram for the polymer:

