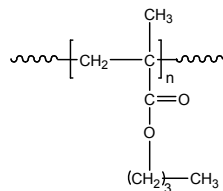


Sample Name: Poly(n-butyl methacrylate)

Sample #: P5954-nBuMA

Structure:



Composition:

$M_n \times 10^3$	PDI
50.0	1.09
T_g ($^{\circ}\text{C}$)	29

Synthesis Procedure:

Poly(n-butyl methacrylate) is obtained by GTP process.

Characterization:

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

Thermal analysis of the sample:

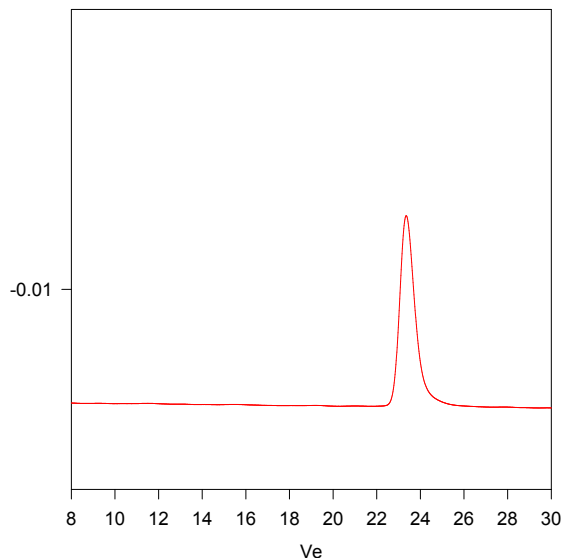
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10 $^{\circ}\text{C}/\text{min}$. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Poly(n-butyl methacrylate) is soluble in THF, CHCl_3 , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:

P5954-nBuMA



Size Exclusion Chromatography of Poly(n-butyl methacrylate):

$M_n = 50,000$, $M_w = 54500$, $PI = 1.09$

DSC thermogram for the polymer:

