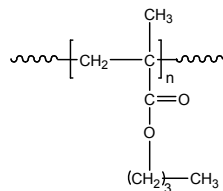


Sample Name: Poly(n-butyl methacrylate)

Sample #: P6617-nBuMA

Structure:



Composition:

$M_n \times 10^3$	PDI
13.0	1.12
T_g (°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:

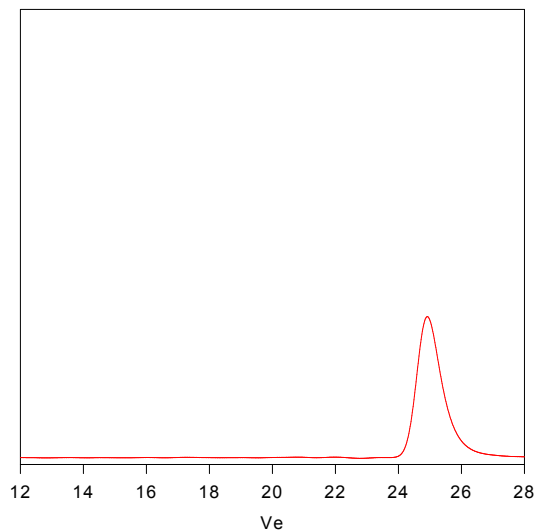
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Poly(n-butyl methacrylate) is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:

P6617-nBuMA



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

$M_n = 13000$, $M_w = 14500$, $PI = 1.12$

DSC thermogram for the polymer:

