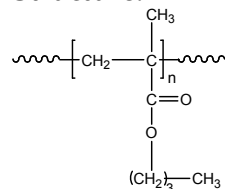


Sample Name: Poly(n-butyl methacrylate)

Sample #: P9629A-nBuMA

Structure:

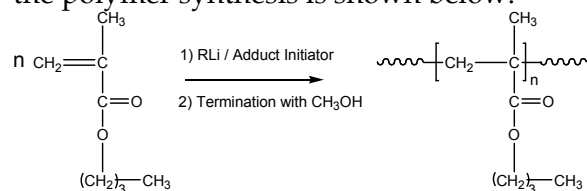


Composition:

$M_n \times 10^3$	PDI
23.0	1.4
T_g ($^{\circ}\text{C}$)	29

Synthesis Procedure:

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



Characterization:

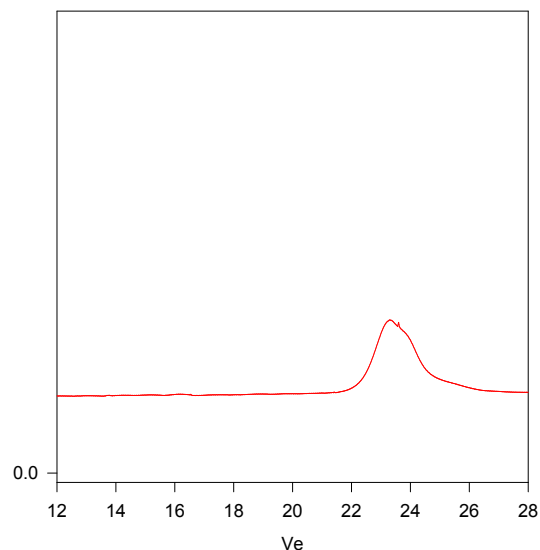
The molecular weight and polydispersity index (PDI) of Poly(n-butyl methacrylate) are obtained by size exclusion chromatography.

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:

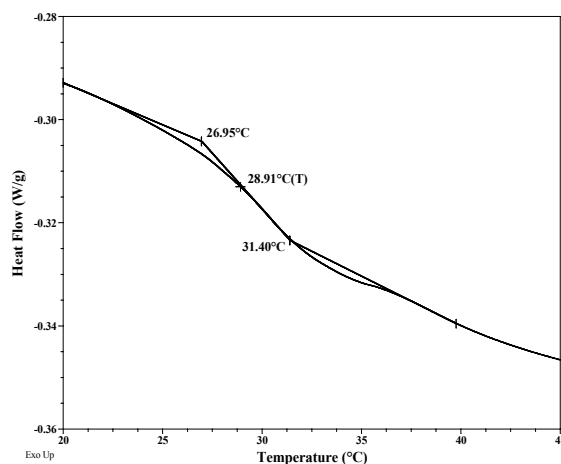
P9629A-nBuMA



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

$M_n = 23,000$, $M_w = 30,000$ $PI = 1.3$

DSC thermogram for the polymer:



References for further information:

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- Ph. Teyssie, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney Makromolekular Chemie, Macromol. Symp., 1990, 32, 61-73.
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