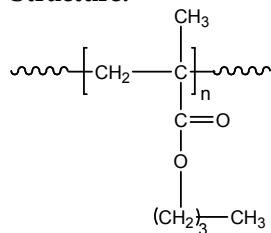


Sample Name: Poly(n-butyl methacrylate)

Sample #: P9629B-nBuMA

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|--------------------------------------|
| 24.0 | 1.3 |
| T _g (°C) | 30 |
| Microstructure | Syndi:hetero:iso contents 79:19:2 |

Synthesis Procedure:

Poly(n-butyl methacrylate) is obtained by living anionic polymerization of n-butyl methacrylate.

Characterization:

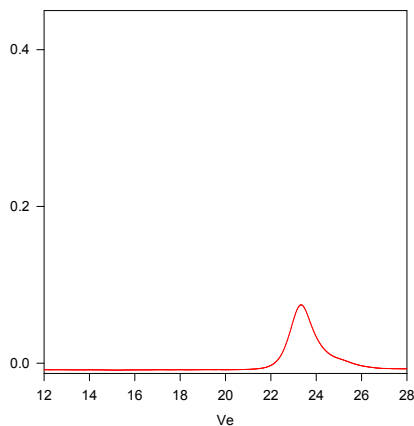
The molecular weight and polydispersity index (PDI) of Poly(n-butyl methacrylate) are obtained by size exclusion chromatography. using PMMA as reference material

Solubility:

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

SEC of Homopolymer:

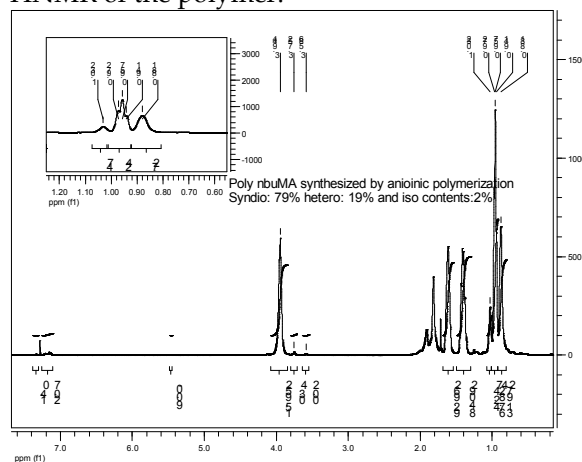
P9629B-nBuMA



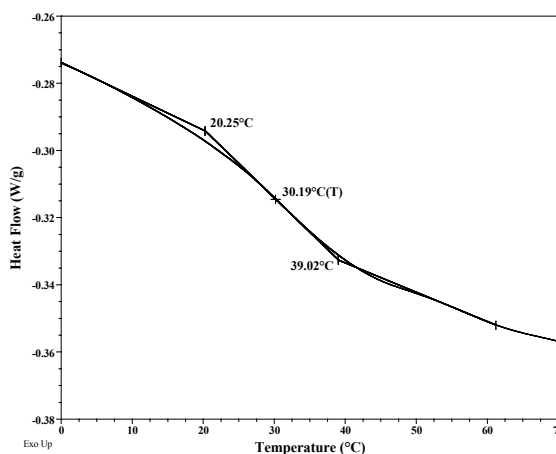
Size Exclusion Chromatography of Poly(n-butyl methacrylate):

M_n = 24,000, M_w = 31,300 PDI = 1.30

HNMR of the polymer:



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 *Makromolekulare Chemie, Macromol. Symp.*, 1990, 32, 61-73.
- S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph. Teyssie *Macromolecules*, 1990, 23, 2618-2622.