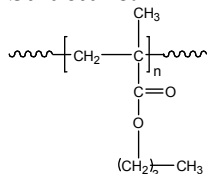


Sample Name: Isotactic rich Poly(n-butyl methacrylate)

Sample #: P40482-inBuMA

Structure:



Composition:

Mn x 10 ³	PDI
22.0	4.3
T _g (°C)	-24 °C
Microstructure	Iso > 85%

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

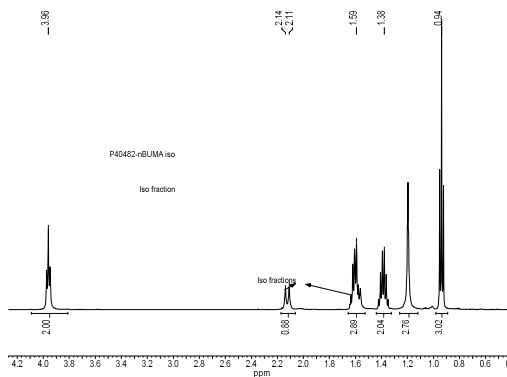
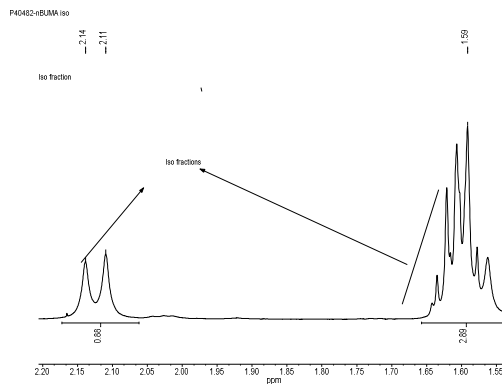
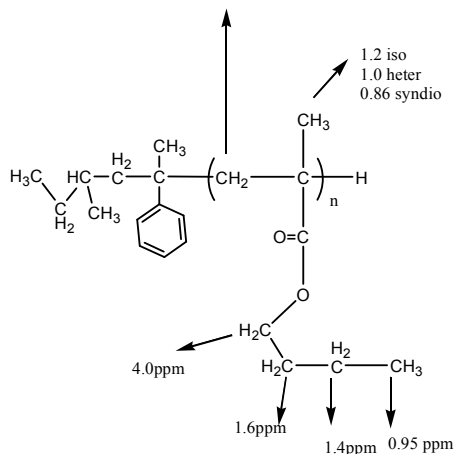
Solubility:

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

¹H NMR of the polymer:

Ref: Macromolecules 27, 22 6305 1994

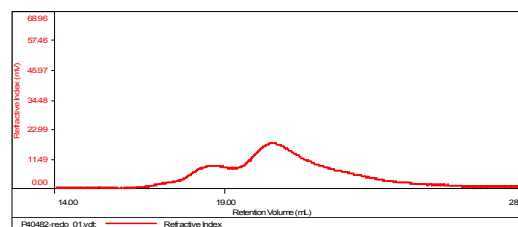
2.1 ppm hetero
1.6 iso



SEC elugram of the sample:

P40482-nBuMA

Concentration (mg/mL)	0.5463
Sample diluic (mL/g)	0.1950
Method File	PS80K-Feb2017-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	Mh (Da)	Mw (Da)	Mw/Mh	IV (dL/g)	Mp (Da)
P40482-redo_01.vdt	22,110	96,312	4.356	3.5108	47,738

DSC thermogram for the polymer:

