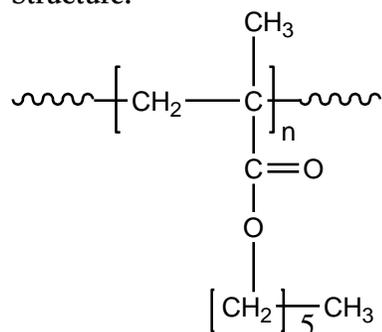


Sample Name: Poly(n-hexyl methacrylate)

Sample #: P 9339-nHMA

Structure:

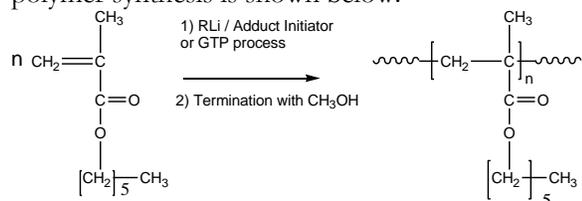


Composition:

Mn x 10 ³	PDI
20.0	1.15
T _g (°C)	-27

Synthesis Procedure:

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



Characterization:

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

Thermal analysis of the sample:

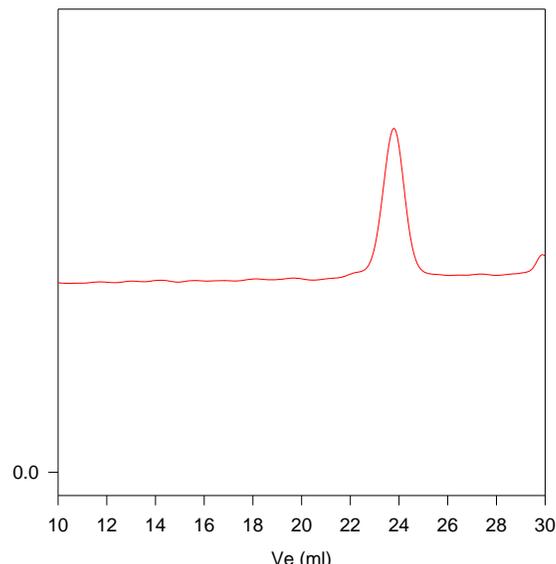
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

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

SEC of Homopolymer:

P9339-nHMA



Size exclusion chromatography of poly(n-hexyl methacrylate):

M_n=20000, M_w=23000, M_w/M_n=1.15

DSC thermogram for the polymer:

