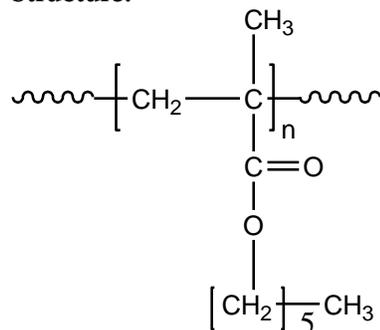


Sample Name: Poly(n-hexyl methacrylate)

Sample #: P6621-nHMA

Structure:

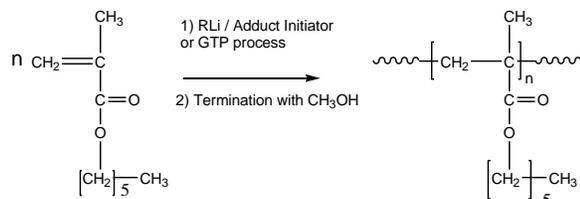


Composition:

$M_n \times 10^3$	PDI
20.5	2.0
T_g ($^{\circ}\text{C}$)	-14

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.

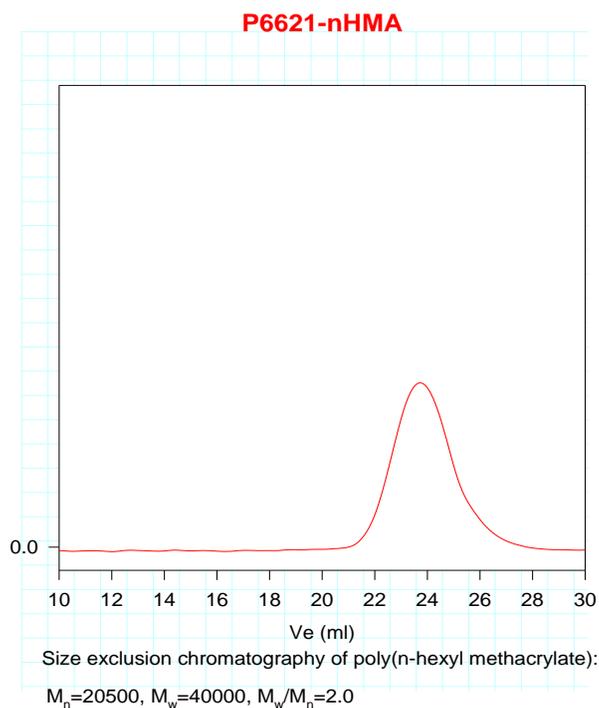
Thermal analysis of the sample:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of $10^{\circ}\text{C}/\text{min}$. 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, CHCl_3 , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:



DSC thermogram for the sample:

