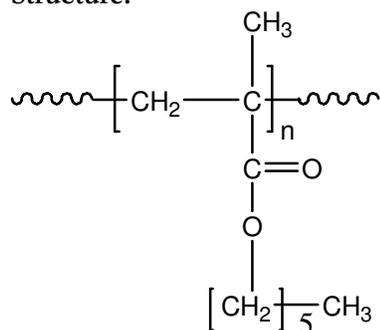


Sample Name: Poly(n-hexyl methacrylate)

Sample #: P 4345-nHMA

**Structure:**

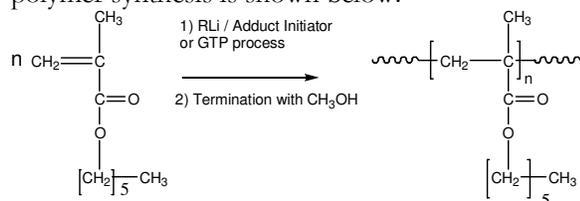


**Composition:**

Mn x 10 <sup>3</sup>	PDI
4.0	1.15
T <sub>g</sub> (°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:**

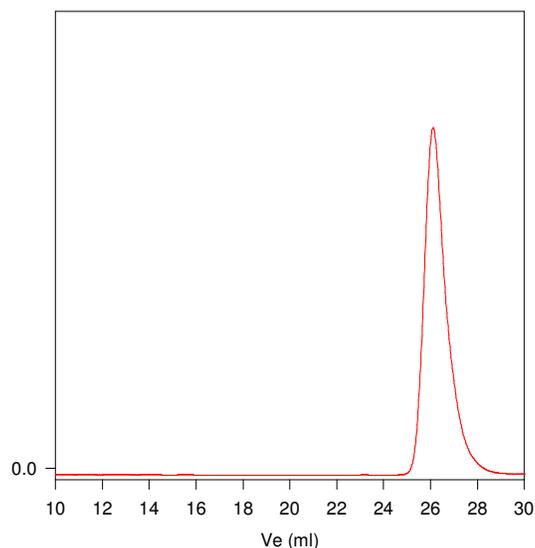
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T<sub>g</sub>).

**Solubility:**

Poly(n-hexyl methacrylate) is soluble in THF, CHCl<sub>3</sub>, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

**SEC of Homopolymer:**

**P4345-nHMA**



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

M<sub>n</sub>=4000, M<sub>w</sub>=4600, M<sub>w</sub>/M<sub>n</sub>=1.15

**DSC thermogram for the polymer:**

