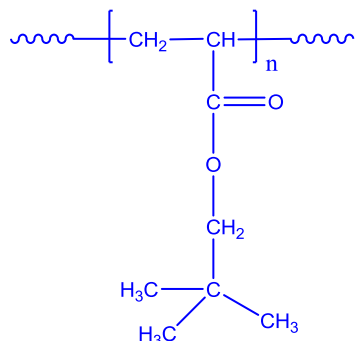


Sample Name: Poly(neopentyl acrylate)

Sample #: P6619-NPA

Structure:

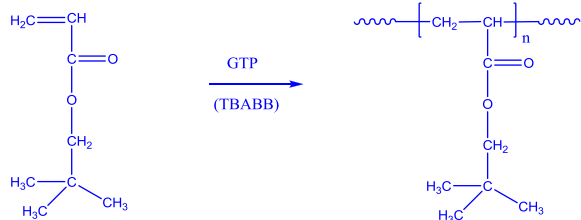


Composition:

$M_n \times 10^3$	PDI
10.0	1.7
$T_g (^{\circ}C)$	07

Synthesis Procedure:

Poly(neopentyl acrylate) is obtained by GTP polymerization of neopentyl acrylate. The reaction scheme used for the synthesis is shown below:



Characterization:

The molecular weight and polydispersity index (PDI) of Poly(neopentyl acrylate) are obtained by size exclusion chromatography.

Thermal analysis of the sample:

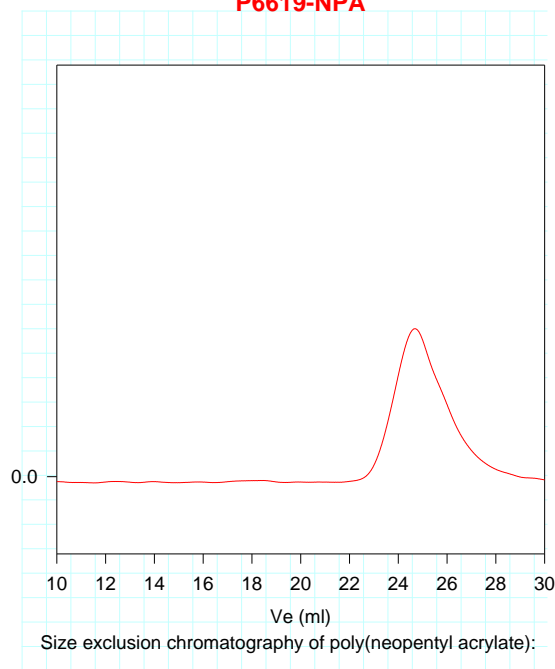
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Poly(neopentyl acrylate) is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from hexanes, methanol with water.

SEC of Homopolymer:

P6619-NPA



$M_n=10000$, $M_w=17000$, $M_w/M_n=1.7$

DSC thermogram for the polymer:

