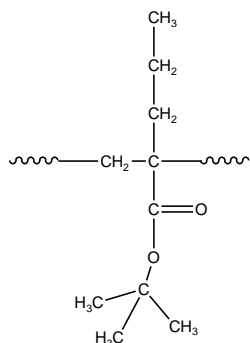


Sample Name: Poly(tert.butyl  $\alpha$ -propyl  
acrylate)  
Sample #: P5834-tBuPrA

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
35.0	1.17
$T_g$ ( $^{\circ}\text{C}$ )	99

**Characterization:**

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

**Thermal analysis:**

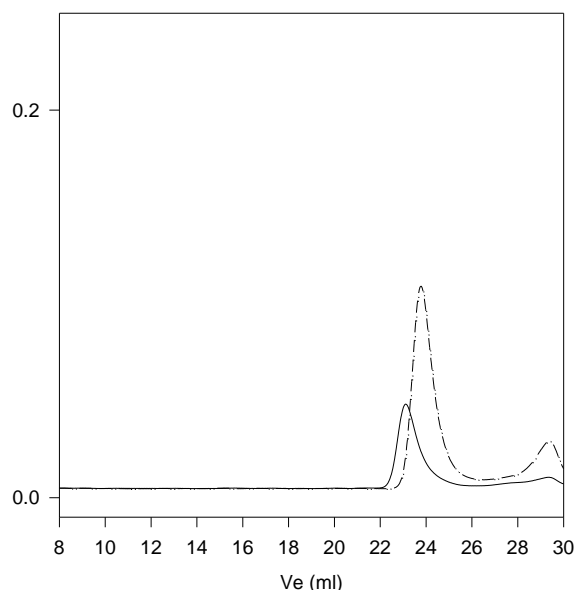
Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of  $10^{\circ}\text{C}/\text{min}$ . The inflection glass transition temperature ( $T_g$ ) has been considered.

**Solubility:**

Poly(tert.butyl  $\alpha$ -propyl acrylate) is soluble in THF,  $\text{CHCl}_3$  and toluene, and can be precipitated from cold ethanol and methanol.

**SEC of sample:**

**P5834-tBuPrA**



Size exclusion chromatography of poly(tBuPrA)

--- after 8h reaction time,  $M_n=2100$ ,  $M_w=24,000$ ,  $M_w/M_n=1.15$

— after 24h reaction time:  $M_n = 35000$   $M_w$ : 41000  $M_w/M_n=1.17$

**DSC thermogram for the polymer:**

