

**P7516-MMAAtBuA**

Size Exclusion Chromatography (SEC) chromatogram showing the elution profile of P7516-MMAAtBuA. The x-axis represents the elution volume ( $V_e$ ) in mL, ranging from 14 to 28. The y-axis represents the detector response, ranging from 0.00 to 0.20.

The chromatogram displays two distinct peaks:

- A large peak (dashed blue line) centered at approximately  $V_e = 24.2$  mL, corresponding to the Poly tert.butylacrylate component ( $M_n = 18000$  Mw: 20800  $M_w/M_n = 1.16$ ).
- A smaller peak (dotted green line) centered at approximately  $V_e = 22.5$  mL, corresponding to the Block Copolymer PMMA(41000)-tBuA(18000),  $M_w/M_n = 1.20$ .

The baseline is stable at approximately 0.05 for the large peak and 0.01 for the small peak.

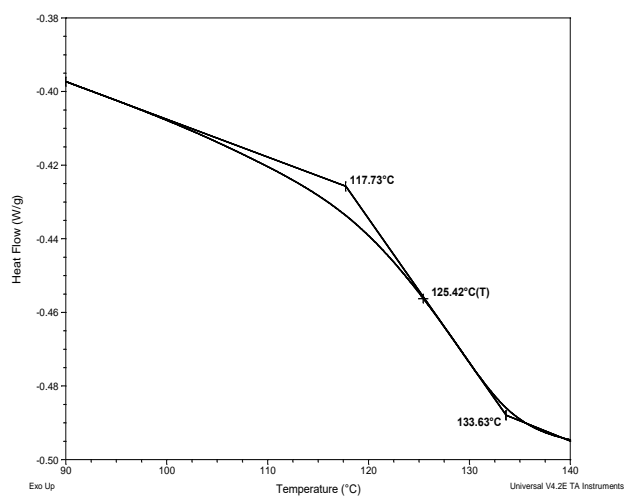
### Thermal Analysis of sample P7516-MMA<sub>t</sub>BuA

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

### Glass transition temperature at a glance

MMA block	tBuA block
126°C	39°C

### DSC thermogram of MMA block:



### DSC thermogram for tBuA block

