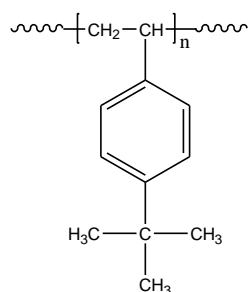


Sample Name: Poly(4-tert-butyl styrene)

Sample #: **P6026B-4tBuS**

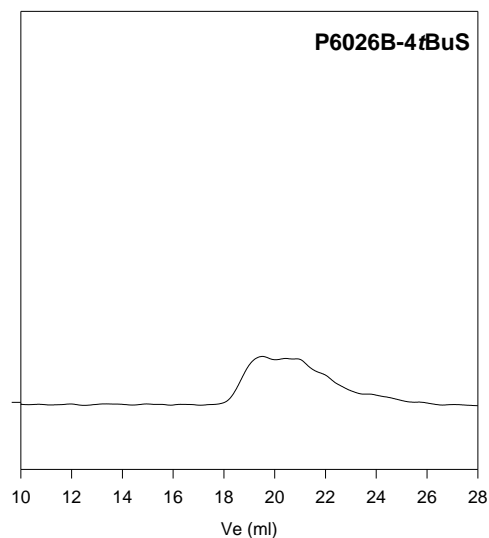
Structure:



Composition:

$M_n \times 10^3$	PDI
68.2	4.95

SEC of Homopolymer:

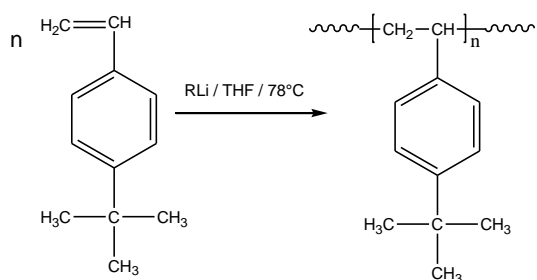


Size exclusion chromatograph of poly4-tert.butylstyrene:

$M_n=68200$, $M_w=338000$, $PI=4.95$

Synthesis Procedure:

Poly(t-butyl styrene) is synthesized by living anionic polymerization of t-butyl styrene and the reaction scheme is shown below.



Characterization:

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

Solubility:

Poly(4-tert-butyl styrene) is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.