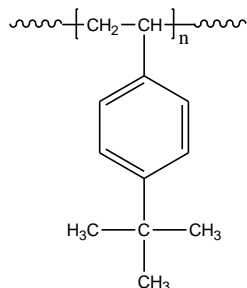


Sample Name: Poly(t-butyl styrene)

Sample #: P3659-4tBuS

Structure:

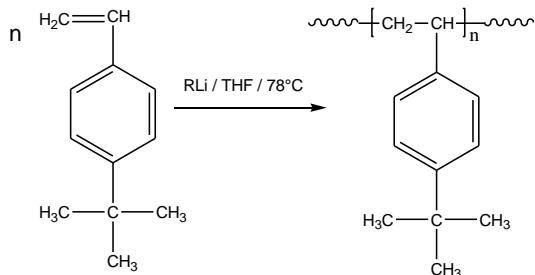


Composition:

Mn x 10 ³	PDI
368.5	1.05
T _g	151 °C

Synthesis Procedure:

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



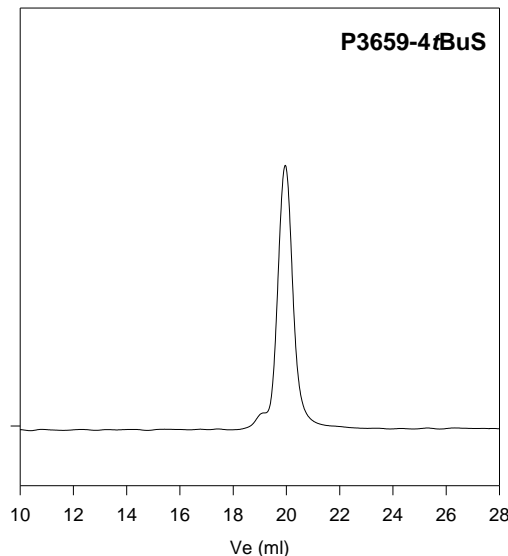
Characterization:

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

Solubility:

Poly(4-t-butyl styrene) is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

SEC profile of Homopolymer:



Size exclusion chromatograph of poly4-tert-butylstyrene:

M_n=368500 M_w=390000 PI=1.05

DSC thermogram for the polymer:

