

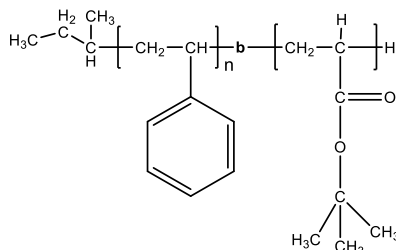
Product Profile

Identification

Product Name: Poly (styrene-*b*- t.butylacrylate)

Product Lot Number: P44614-StBuA

Product Chemical Architecture:



Composition:

Mn x 10 ³ P(S-b-tBuA)	Mw/Mn (PDI)
25.0-b-107.0	1.35
Dp of each block: A-B from ¹ H NMR S ₂₄₀ -b-tBuA ₈₃₅	

Method of Synthesis

Poly(styrene-*b*-tert.butyl acrylate) is prepared by living anionic polymerization process.

Solubility in different solvents

THF	√		
CHCl ₃	√	DMF	√
Toluene-Hot	√		

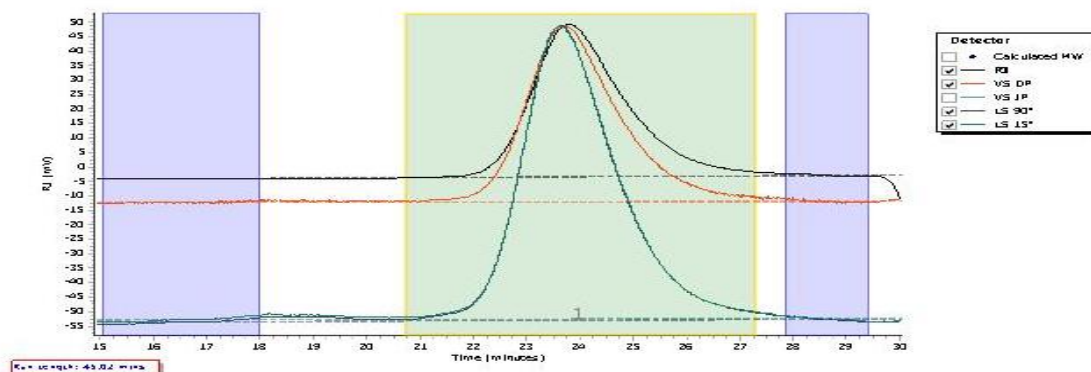
Purification of Polymer to remove any homo polystyrene fractions.

Validation of Architecture:

A. √Gel Permeation Chromatography (GPC), SEC- Profile

Chromatogram Plot

P44614-S Block

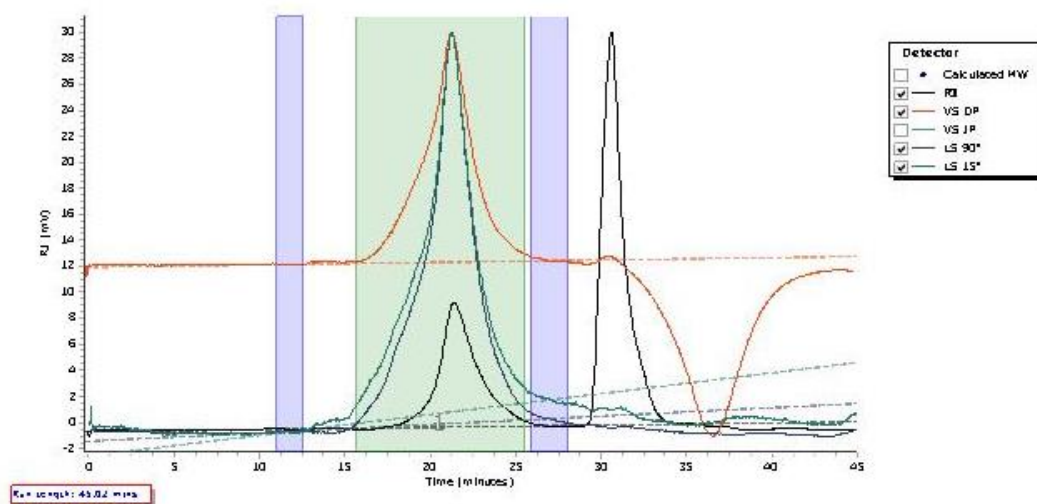


Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	28742	25710	27150	28466	29676	28321	1.056

P44614-StBuA

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	180409	131504	176500	234935	315866	232429	1.342

B. NMR (HNMR) spectrum of polymer:

