

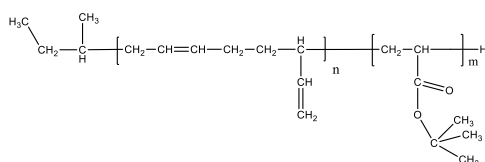
# Product Profile

## Identification

Product Name: Poly(1,2-butadiene)-b-poly(tert-butyl acrylate)

Sample #: P45258-BdtBuA

Structure:



Composition:

Mn x 10 <sup>3</sup> PBd-b-tBuA	PDI
88.0-5.0	1.3
1,2 Addition :90%	

**Method of Synthesis:** By anionic process

**Solubility in different solvents**

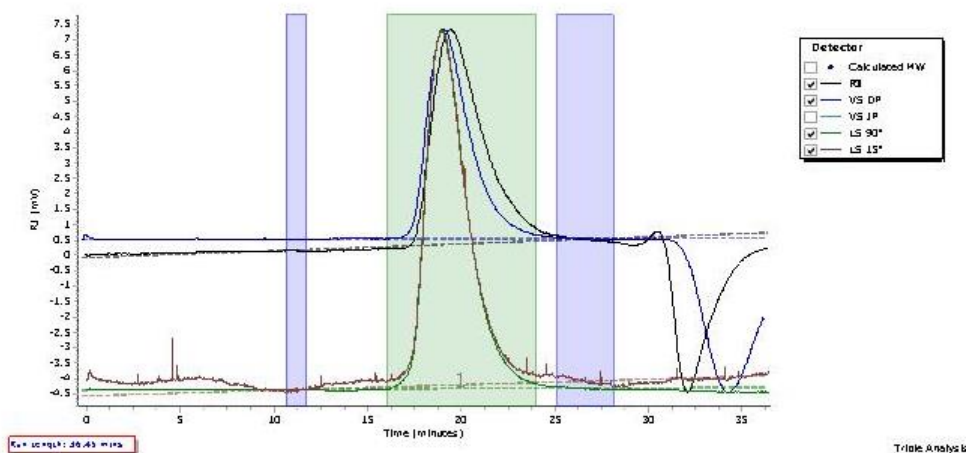
THF	√		
CHCl <sub>3</sub>	√		
Toluene-Hot	√		

**Purification of Polymer:** To remove any traces of homo polybutadiene using acetone-Hexane

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

Chromatogram Plot

**P45258-BdtBuA**



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	147040	92972	128592	160404	186280	158215	1.383

**B. NMR (HNMR) of polymer:**

