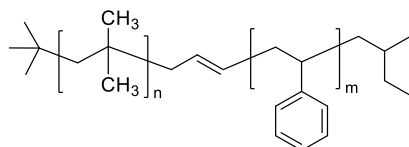


Sample Name: Poly(isobutylene)-b-poly(styrene)

Sample #: P42329A-IB-S

Structure:

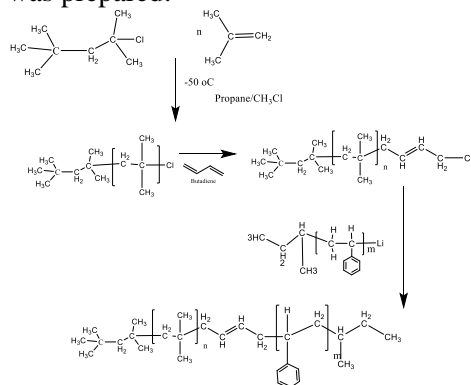


Composition:

$Mn \times 10^3$ Ib-b-S	Mw/Mn (PDI)
5.3-b-5.0	1.11

Synthesis Procedure:

The following reaction scheme shows how the product was prepared:



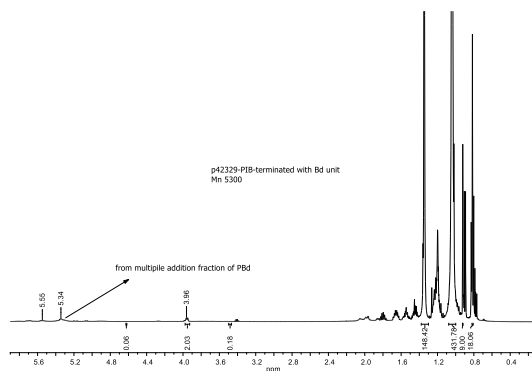
Characterization:

The product was characterized by size exclusion chromatography (SEC) and 1H NMR.

Solubility:

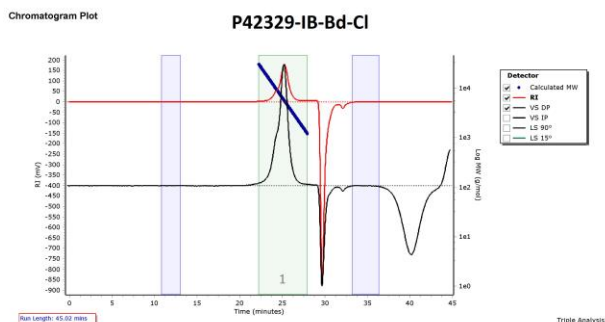
Poly(isobutylene)-b-S) block copolymer is soluble in THF, toluene and hexane.

HNMR spectrum of PIB-Bd-Cl:



EC profile of the First Block of Poly isobutylene Cl terminated with a unit of Butadiene spacer:

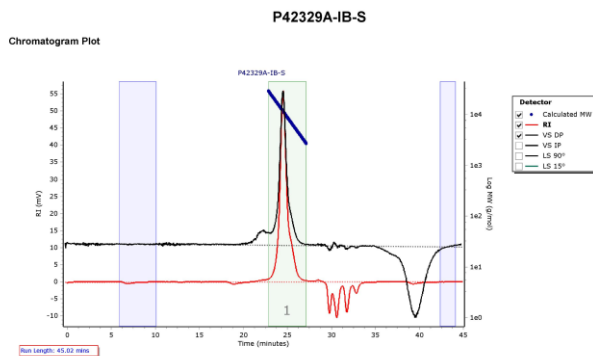
Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	5599	5321	5505	6160	10777	7602	1.223

SEC profile of the Sample after linking Polystyrene Block:

Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	11603	10212	11382	12511	13728	12292	1.115