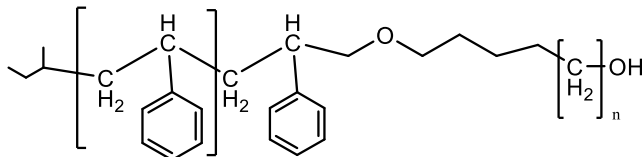


Sample Name: **Poly(styrene)-b-poly(methylene)**

Sample #: P60193A-SM

Structure:

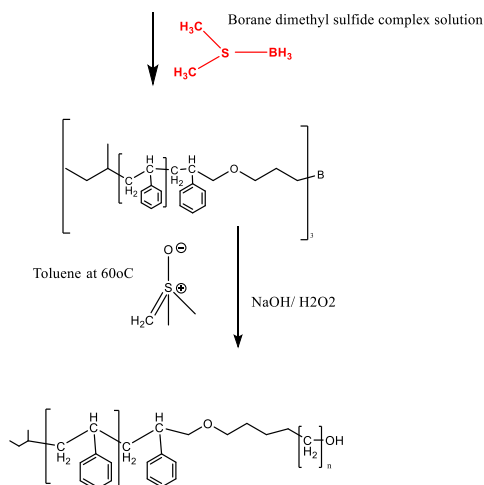
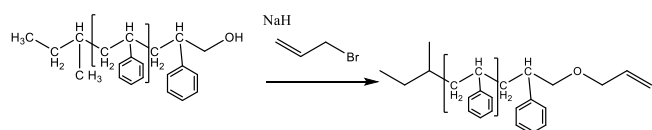


Composition:

Mn x 10 ³ S-b-M	PDI
2.5-b-5.0	1.08

Synthesis Procedure:

The following reaction scheme shows how the product was prepared:



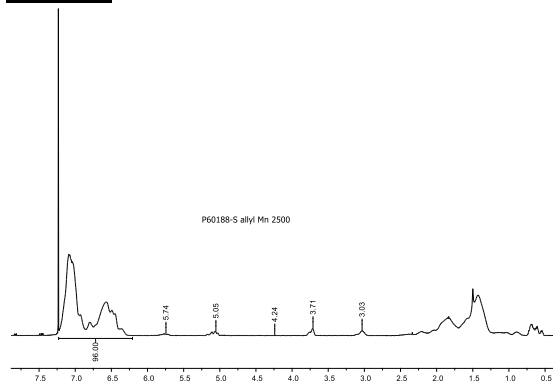
Characterization:

The product was characterized by size exclusion Chromatography (SEC) and ¹H NMR in Toluene and in chlorobenzene.

Solubility:

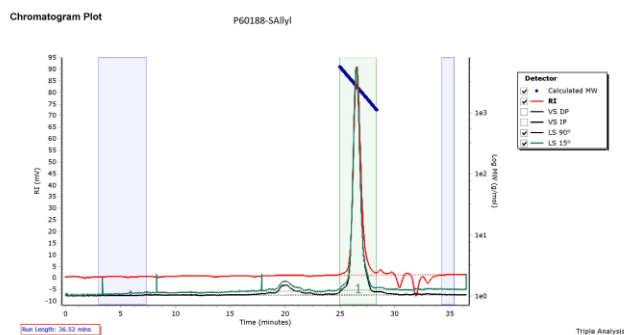
Polymer is soluble in warm toluene and in dichlorobenzene.

H-NMR Spectrum of the Ally terminated Poly Styrene:



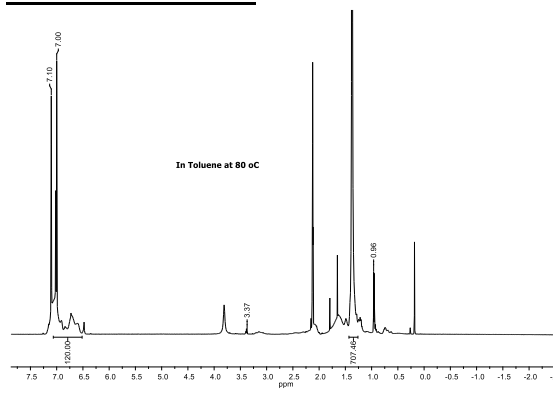
SEC elugram of the Ally terminated Poly Styrene:

Agilent GPC/SEC Software



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	2673	2537	2635	2731	2828	2709	1.03

¹H-NMR Spectrum of the PolyStyrene-b-Methylene in Toluene at 80 °C:



GPC of the diblock copolymer carried out in Toluene the elution volume was higher than its polystyrene allyl precursor. The Mw/Mn is increased from 1.03 to 1.08 HNMR calculate the composition which is comparable to its yield of the polymer.