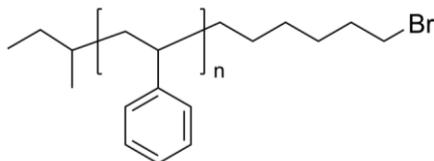


Sample Name:
Poly(styrene), ω -(primary)bromo-terminated

Sample #: P43363-SBr

Structure:

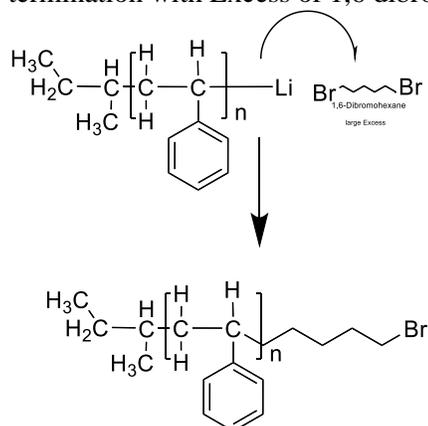


Composition:

$M_n \times 10^3$	PDI
6.5	1.01

Synthesis Procedure:

ω - Bromine terminated Polystyrene was prepared by living anionic polymerization of styrene using a monofunctional initiator in THF followed by termination with Excess of 1,6 dibromohexane.



Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by HNMR.

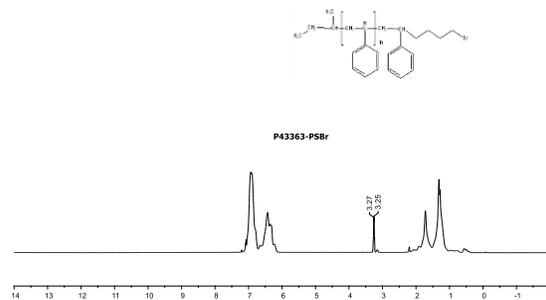
Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

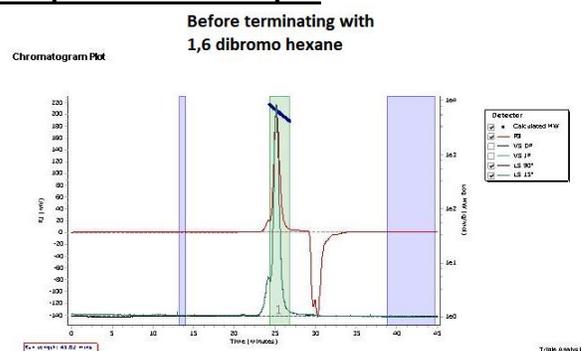
Solubility:

Polymer is soluble in toluene, THF, $CHCl_3$. It can be precipitated in water and cold methanol.

HNMR spectrum of the Sample:

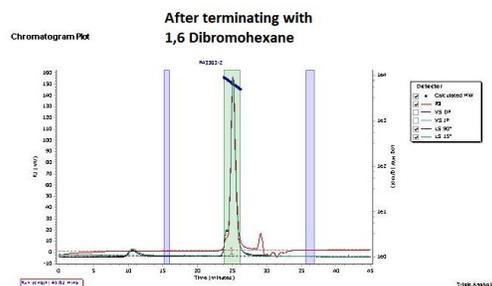


SEC profile of the Sample:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	6555	6359	6441	6519	6593	6506	1.013



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	6516	6433	6502	6574	6650	6553	1.011