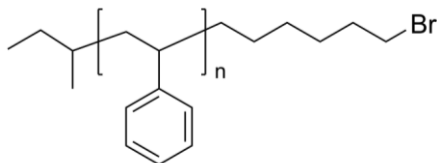


Sample Name:

Poly(styrene), ω -(primary)bromo-terminated

Sample #: **P43363-SBr**

Structure:

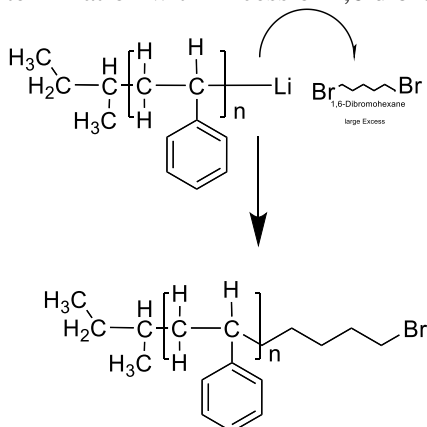


Composition:

$M_n \times 10^3$	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.

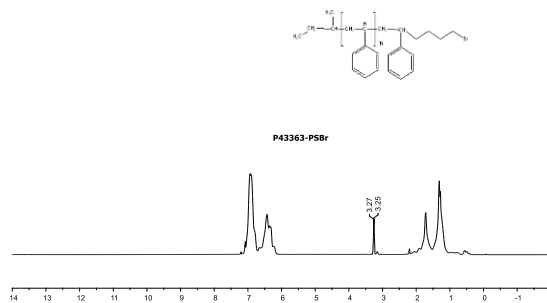
Thermal analysis:

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.

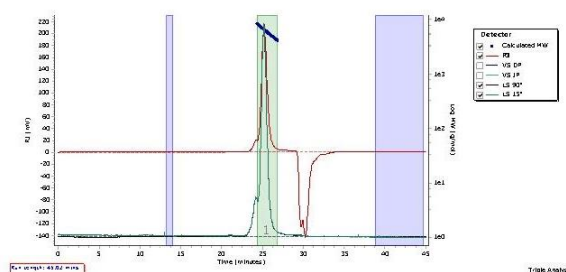
HNMR spectrum of the Sample:



SEC profile of the Sample:

Before terminating with
1,6 dibromo hexane

Chromatogram Plot



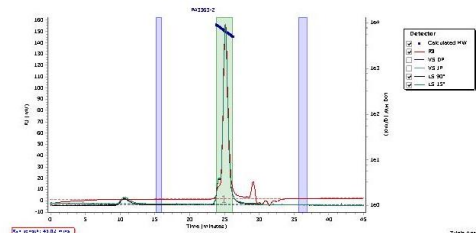
Molecular Weight Averages

Peak	M_p (g/mol)	M_n (g/mol)	M_w (g/mol)	M_z (g/mol)	M_z+1 (g/mol)	M_v (g/mol)	PDI
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Peak 1	6555	6359	6441	6519	6593	6506	1.013
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After terminating with
1,6 Dibromohexane

Chromatogram Plot



Molecular Weight Averages

Peak	M_p (g/mol)	M_n (g/mol)	M_w (g/mol)	M_z (g/mol)	M_z+1 (g/mol)	M_v (g/mol)	PDI
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Peak 1	6516	6433	6502	6574	6650	6553	1.011
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