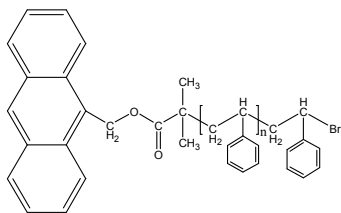


Sample Name:
Anthracene Terminated Polystyrene

Sample #: **P14938-S-An**

Structure:

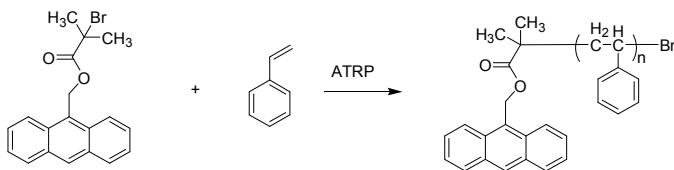


Composition:

Mn x 10 ³	PDI
9.0	1.48

Synthesis Procedure:

Anthracene terminated polystyrene is prepared via atom transfer radical polymerization of styrene using an anthracene-containing initiator, 9-anthracenemethyl-2-bromoisobutyrate.



Characterization:

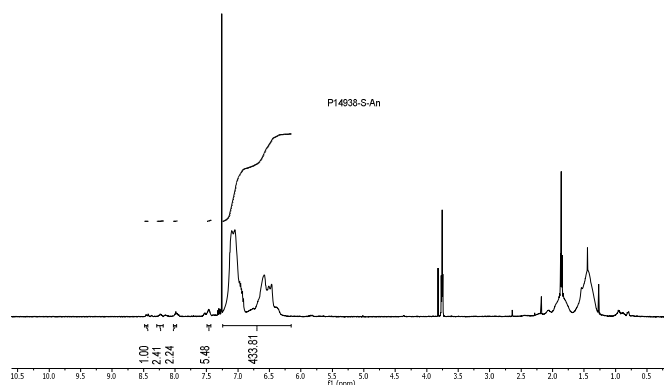
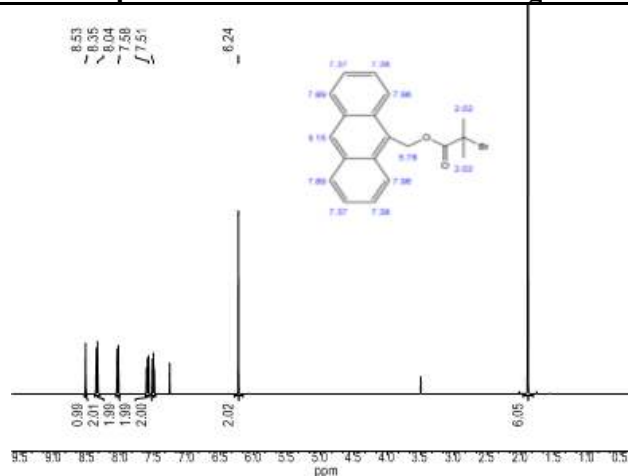
The polymer was characterized by size exclusion chromatography (SEC) and ¹H NMR.

Solubility:

The polymer is soluble in toluene, THF, CHCl₃ and CH₂Cl₂. The polymer is insoluble in methanol, hexane and ether.

Functionality: functionality of the obtained polymer was determined by proton NMR.

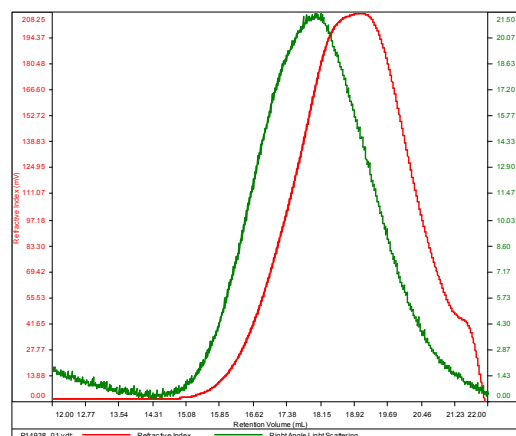
¹H NMR spectrum of anthracene-containing initiator:



SEC of Sample:

P14938-S-An

Conc (mg/mL)	24.8363
dn/dc (mL/g)	0.1650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023MLiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14938_01.vdt	9,065	13,412	9,294	1.479	0.0395