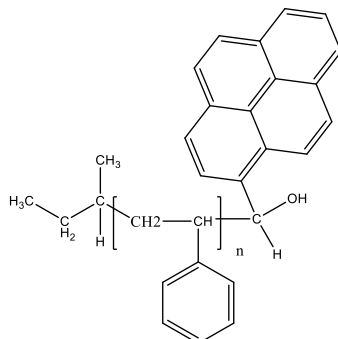


Sample Name:

Poly(styrene), ω -(10-pyrenyl)-terminated

Sample #: **P42822-Spy**

Structure:

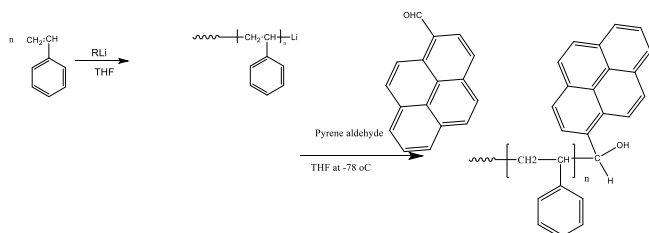


Composition:

$M_n \times 10^3$	PDI
5.5	1.19
Pyrene functionality	>99%

Synthesis Procedure:

The functionalized polymer was prepared by anionic living polymerization of styrene using monofunctional as initiator. The reaction was terminated with 1-pyrene aldehyde.



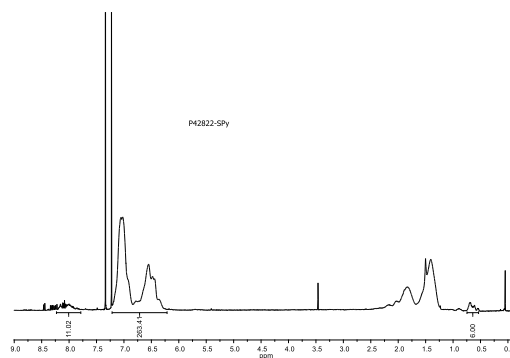
Characterization:

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 (at 390 nm) and refractive index detector. Polymer functionality was determined by the FTIR/ HNMR. The Pyrene functionality close to 1.0.

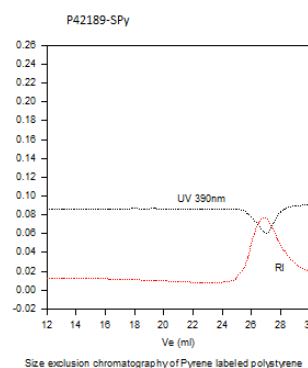
Solubility:

Polymer is soluble in THF, Dioxane, CHCl_3 and precipitated out from methanol/water, and in cold hexane.

^1H -NMR spectrum of the product:

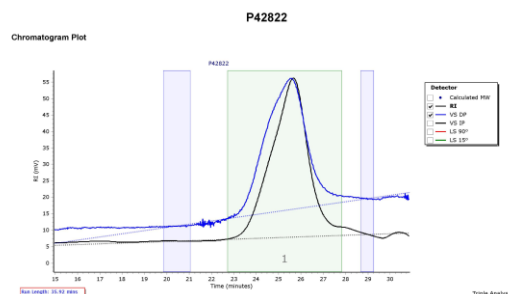


SEC profile of the Sample:



Size exclusion chromatography of Pyrene labeled polystyrene

SEC elugram of the Sample:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mx+1 (g/mol)	Mv (g/mol)	PD
Peak 1	3720	5771	6991	8223	9758	7687	1.193

FT-IR spectrum of the Sample:

