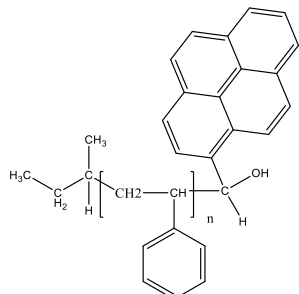


Sample Name:

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

Sample #: **P42819-Spy**

Structure:

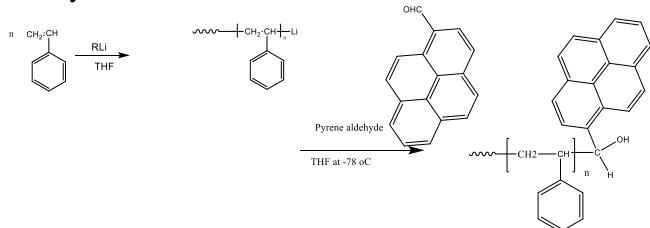


Composition:

Mn x 10 ³	PDI
26.0	1.13
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.



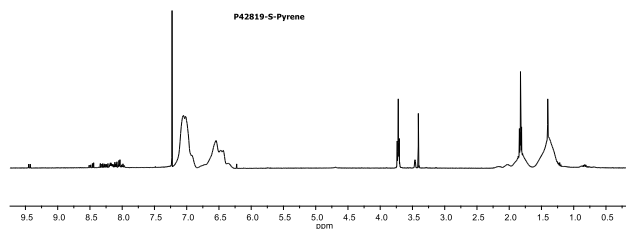
Characterization:

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.

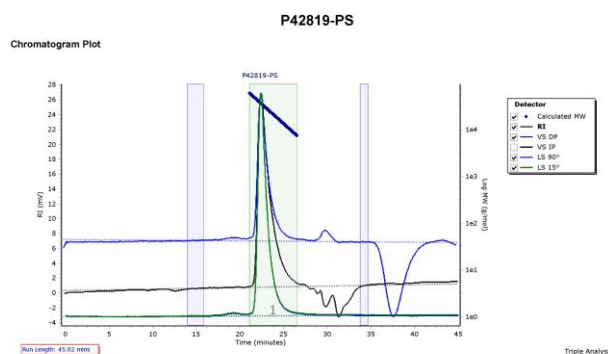
Solubility:

Polymer is soluble in THF, Dioxane, CHCl₃ and precipitated out from methanol/water, and in cold hexane.

¹H-NMR spectrum of the product:



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)
Peak 1	36127	26041	29635	32347	34586	32006

Triple Analysis

