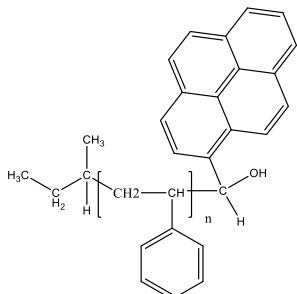


Sample Name:
Poly(styrene), ω -(10-pyrenyl)-terminated

Sample #: P42189-SPy

Structure:

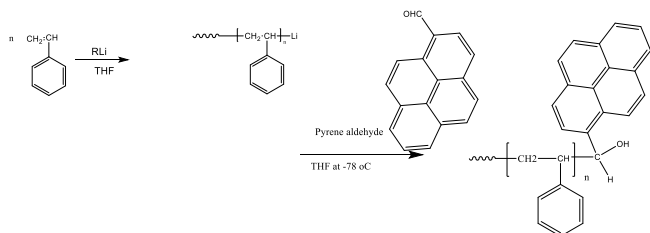


Composition:

Mn x 10 ³	PDI
2.1	1.03
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.

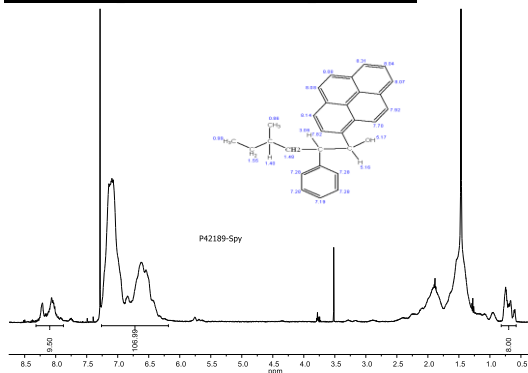


Characterization:

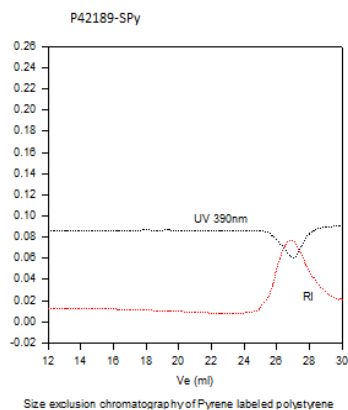
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV (at 390 nm) and refractive index detector. Polymer functionality was determined by the FTIR/ HNMR. The Pyrene functionality close to 1.0.

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

HNMR spectrum of the product:

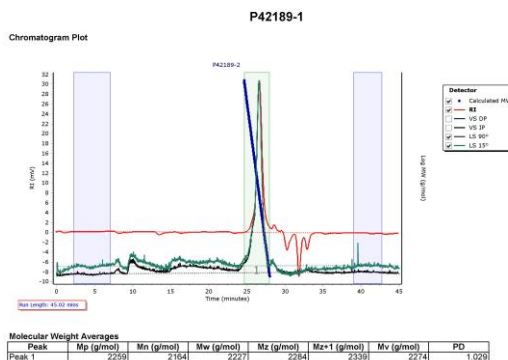


SEC profile of the Sample:



SEC elugram of the Sample:

Agilent GPC/SEC Software



FTIR spectrum of the Sample:

