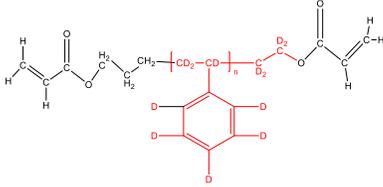


**Sample Name:**  
**Deuterated Poly(styrene-d8),  $\alpha,\omega$ -bis(acrylate)-terminated**

**Sample #:** P44940-dPS2acrylate

**Structure:**

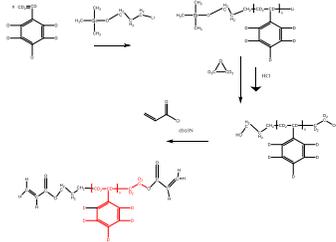


**Composition: Ivory color Honey like**

Mw x 10 <sup>3</sup>	PDI
0.9	1.13
End group Functionality: > 95%	

**Synthesis Procedure:**

$\alpha,\omega$ -Hydroxy Terminated deuterated Polystyrene-d8 was prepared by living anionic polymerization of styrene-d8, followed by modification of terminal OH to acrylate unit.



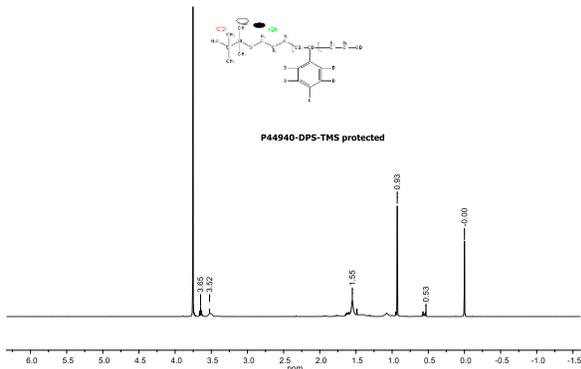
**Characterization:**

The product was characterized by size exclusion chromatography (SEC), <sup>1</sup>H NMR, Deuterium NMR and FTIR data analysis.

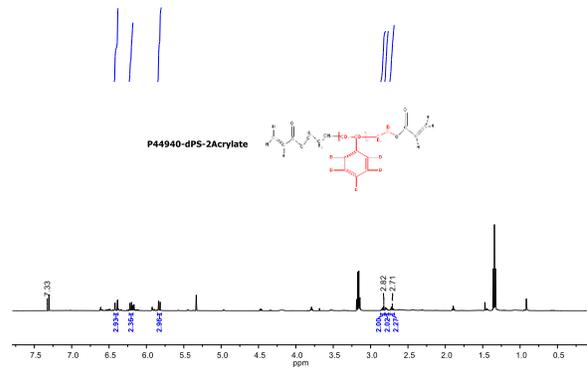
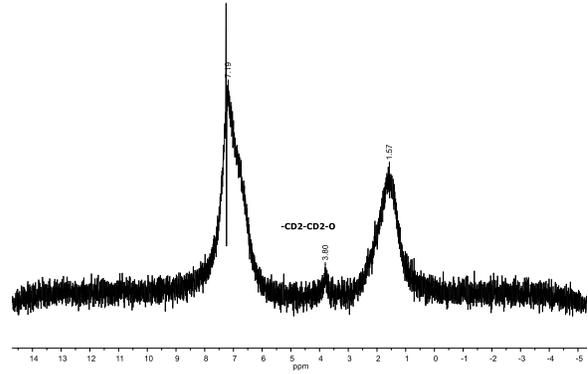
**Solubility:**

Polymer is soluble in toluene, THF, CHCl<sub>3</sub> and can be precipitated in water and cold methanol.

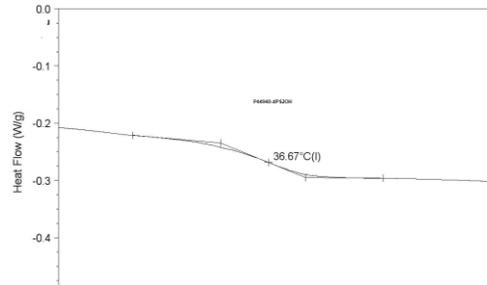
**<sup>1</sup>H-NMR spectrum of the Polymer:**



**DNMR spectrum of the Sample:**



**DSC results:**



**SEC elugram of the dPS2OH Sample:**

