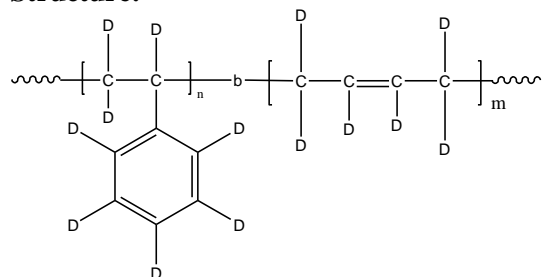


Sample Name: Random Copolymer Poly (deuterated Styrene (d8)-co-deuterated Butadiene (d6))

(Note: PS block and PBd block are deuterated.)

Sample # P41643-dPSdBdran

Structure:



Composition:

$M_n \times 10^3$ dSdBdran	PDI
50	1.14

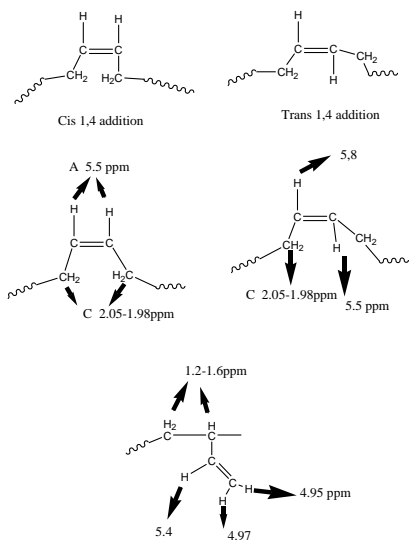
Tg: 13 °C
dPS: 25% wt

Synthesis:

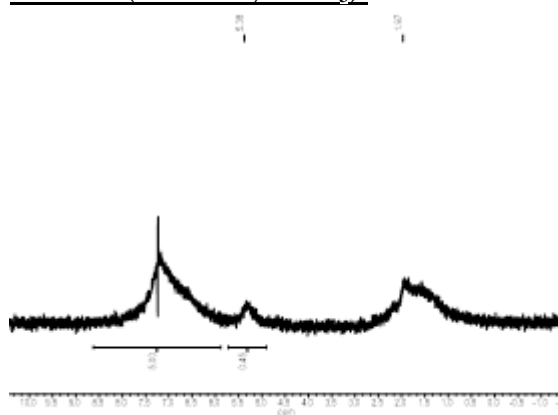
The polymer was synthesized by anionic polymerization in the presence of t-BuOLi and TEMEDA at 60°C.

Characterization:

The product was characterized Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with light scattering detector and refractive detector (Viscotek model 270).

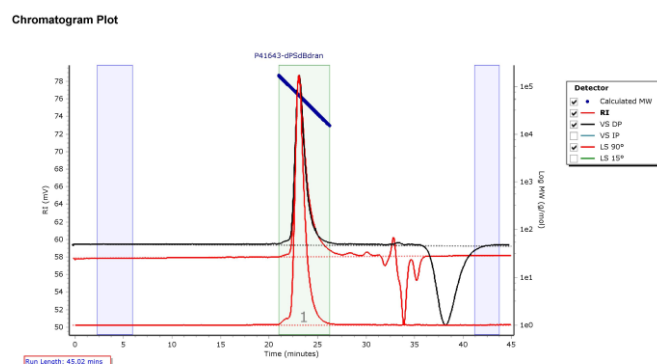


^2H NMR (500 MHz, CHCl_3):



SEC elugram of d8S-d6Bpd random copolymer:

P41643-dPSdBdran



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	65259	49739	56890	62598	67503	61835	1.144

DSC of the sample:

Sample: P40303
Size: 12.2000 mg

DSC

File: P40303-dPSdBd.001

