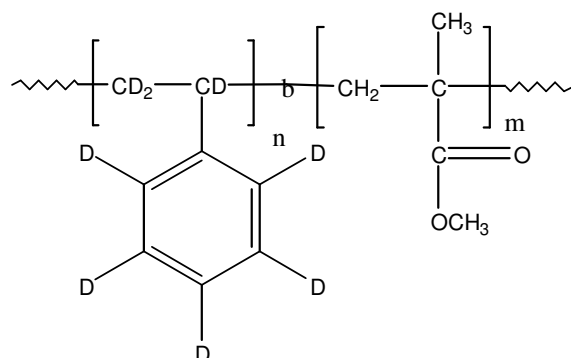


Sample Name: Deuterated Polystyrene (d₈)-
Methylmethacrylate (protonated)
Sample #: P19127-dPSMMA

Structure:



Composition:

Mn x 10 ³ (dPS-b-MMA)	PDI
50.5-b-10.0	1.10
T _g for PS block	106°C
T _g for MMA block	Not detected

Synthesis Procedure:

By anionic process.¹⁻⁴

Characterization:

By GPC and HNMR.

Solubility:

Deuterated polystyrene-d₈MMA is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

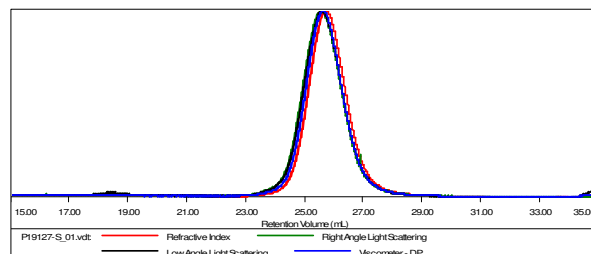
References for further information:

1. S. K. Varshney, R. Fayt, Ph. Teyssie, and J.P. Hautekeer US Patent 5,264,527 (1993)
2. Ph. Teyssie, Ph. Bayard, R. Jerome, S. K. Varshney, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules* 1994, 67.
3. Ph. Teyssie, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney *Makromolekular Chemie, Macromol. Symp.*, 1990, 32,61-73.
4. S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph.Teyssie *Macromolecules*, 1990, 23, 2618-2622.

SEC of the polymer:

Sample ID: P19127-dPS

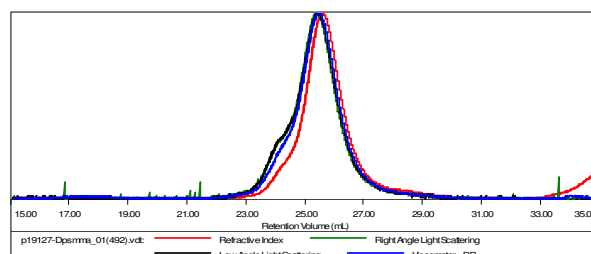
Concentration (mg/mL)	44.8006
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polycdispersi	Intrinsic Viscosity (dL/g)
P19127-S_01.vdt	50,397	52,464	50,977	1.041	0.2287

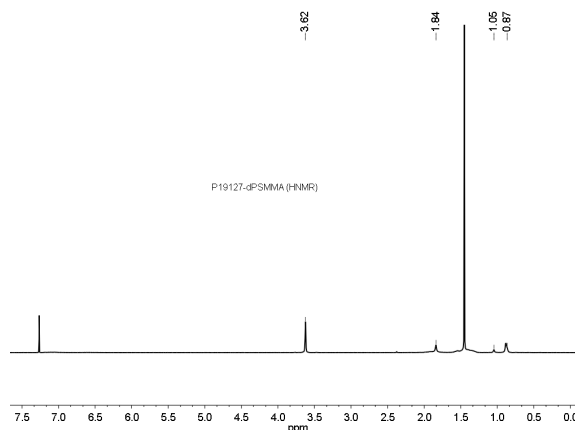
Sample ID: P19127-dPSMMA

Concentration (mg/mL)	6.2131
Sample dn/dc (mL/g)	0.1700
Method File	PS80K-March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polycdispersi	Intrinsic Viscosity (dL/g)
p19127-Dpsmma_01(492).vdt	60,884	67,175	60,447	1.103	0.2455

H NMR:



H NMR cont.:

