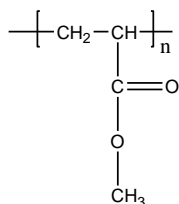


Sample Name: Poly(methyl acrylate)

Sample #: P20281E-MA

Structure:

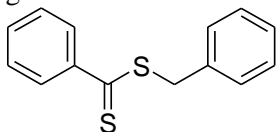


Composition:

Mn x 10 ³	PDI
77.5	1.5

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.
using:



Dithiobenzoic acid benzyl ester

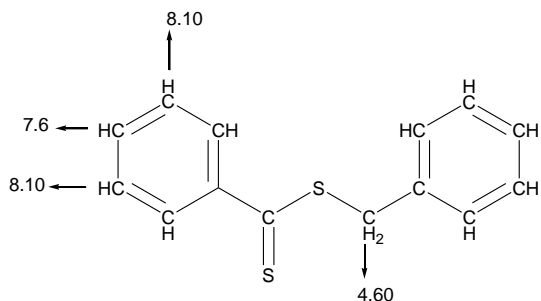
Characterization:

The product was characterized by size exclusion chromatography (SEC).

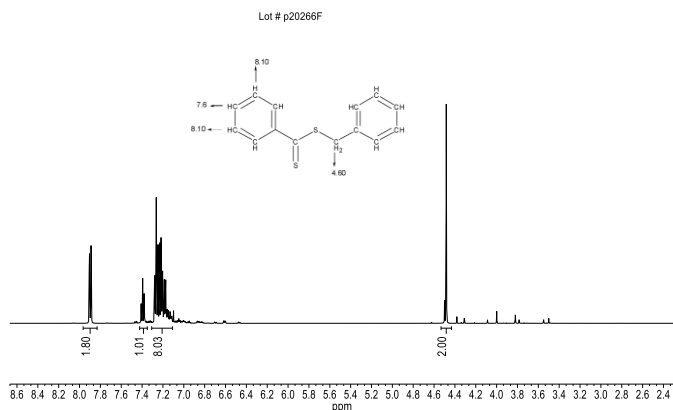
References:

1. 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.
2. R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and **S. K. Varshney**, *Macromolecules*, 1987, 20, 1442-1444.
3. Jerome, R. Forte, **S. K. Varshney**, R. Fayt, and Ph. Teyssie, "The Anionic Polymerization of Alkylacrylates: A Challenge" in the Recent Advances in Mechanistic and Synthetic Aspects of Polymerization: M. Fontanille and A. Guyot Ed., NATO ASI Series C 215, 101 (1987), CA Vol. 108, 12, 094992.
4. Ph. Teyssie, R. Fayt, C. Jacobs, R. Jerome, L. Leemans, and **S. K. Varshney** *Am. Chem. Soc., Polym. Prepr.* 1988, 28, 2, 52-53

¹H NMR spectrum of the RAFT:



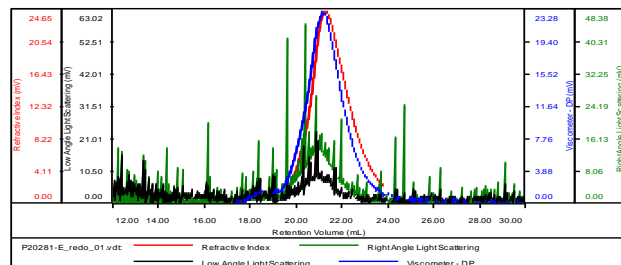
¹H NMR (500 MHz, CDCl₃):



SEC elugram of the Sample:

Sample ID-P20281E-MA

Concentration (mg/mL)	0.2776
Sample dn/dc (mL/g)	0.0680
Method File	PS80K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P20281-E_redo_01.vdt	77,575	118,500	101,151	1.528	4.5171