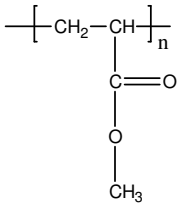
Sample Name: **Poly(methyl acrylate)**

Sample #: **P20281F-MA By RAFT process**

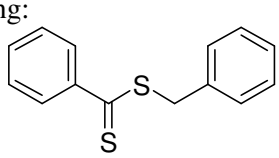
Structure:



Composition:

Mn x 10^3	PDI
30.5	1.4

Synthesis Procedure: By RAFT process using:



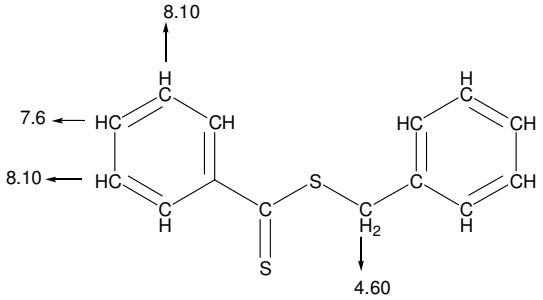
Dithiobenzoic acid benzyl ester

Characterization:
The polymer was characterized by SEC.

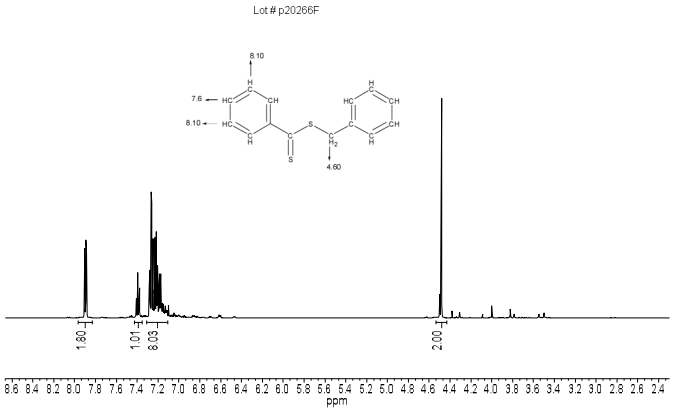
References:

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. Fontanaille 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*

^{1}H NMR of the RAFT:



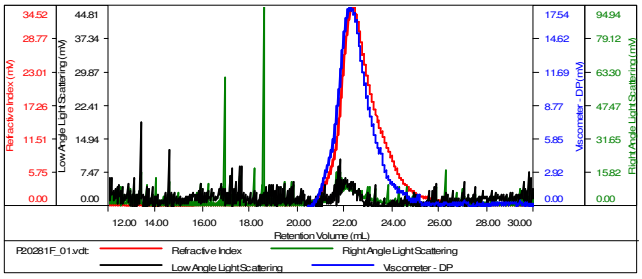
^{1}H NMR (500 MHz, $CDCl_3$):



SEC elugram:

Sample ID-P20281F-MA

Concentration (mg/mL)	0.3261
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)
P20281F_01.vdt	30,625	43,448	38,478	1.419	2.3349