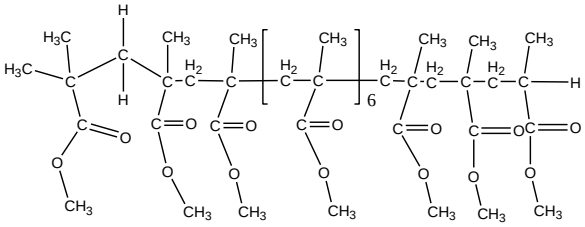
Sample Name: **Oligo (methyl methacrylate)**

Sample #: **P18038D-MMA**

Structure:

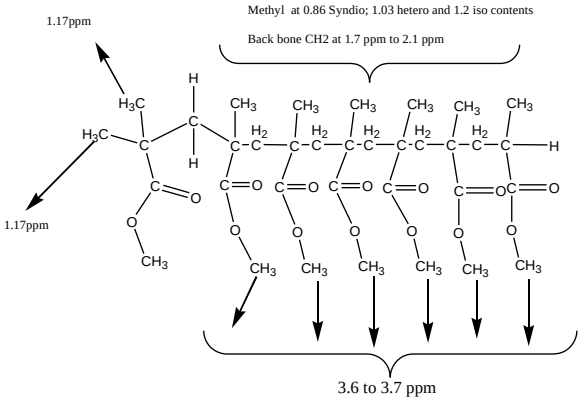


Composition:

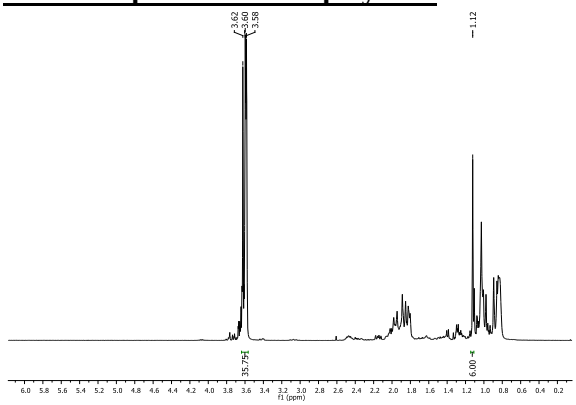
Degree of Polymerization	PDI
D_p by ^{1}H NMR: 12	1.10
Mn: 1200	

Characterization:

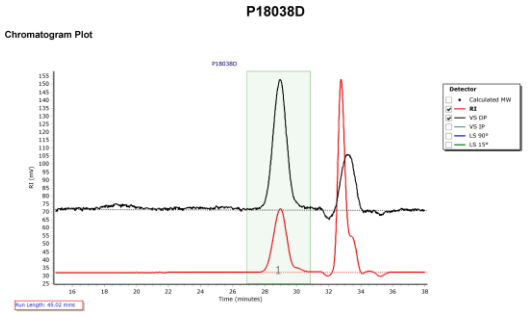
The polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. The degree of polymerization was determined by H NMR analysis.



^{1}H NMR spectrum of the polymer:



SEC elugram of the Sample:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	841	795	874	950	1027	914	1.1

Processing Parameters

Method	Last modified by Polymer Source at 3:21:24 PM on February-19-19
Concentration Detector Used in Analysis	RI
Injection volume (µL)	100.00
Flow rate (mL/min)	1.00
Concentration options	Calculate Sample Concentration from Entered Sample Properties
Entered dn/dc (mL/g)	0.084
Entered Ext Coeff ([(mg/mL)-1][cm-1])	1.000
Calculated RI concentration (mg/mL)	5.153
MW calculation method	Use all angles
Log Mi-v-RT curve fit options	Set the fit limits using the limits at peak width of 10 %.
Polynomial curve fit order	1
Use Constant Inlet Pressure	No
Flory-Fox	2.86e+021
DP Multiplier (mV to Pa)	1.0000
IP Multiplier (mV to kPa)	1.0000
Use IV To Calculate Rg	No

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*