

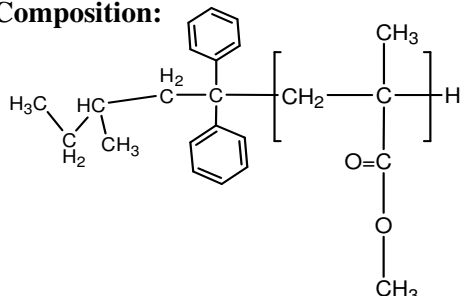
Sample Name: Poly(methyl methacrylate)
Syndiotactic rich contents >79%

Electronic Grade

Sample #: P9405P-MMA

Structure:

Composition:



Mn x 10 ³	PDI
62.5	1.05

Synthesis Procedure:

The polymer was synthesized by anionic process

Characterization:

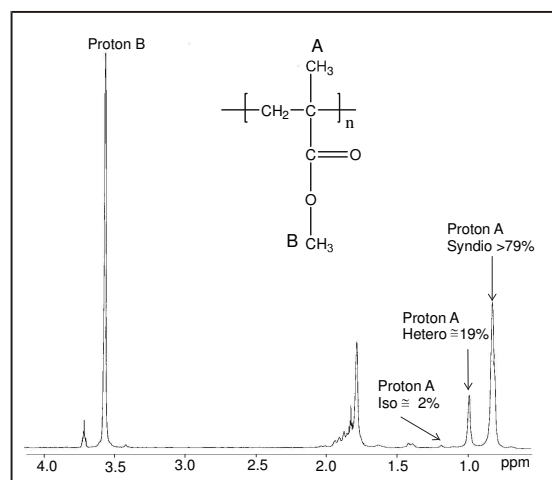
The polymer was characterized by SEC and ¹H NMR.

Solubility:

Poly(methyl methacrylate) is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

Purification and Filtration: The obtained polymer was dissolved in 1-4 dioxane and filter through a membrane 0.5 μ nylon filter. The obtained solution was freeze dried under vacuum.

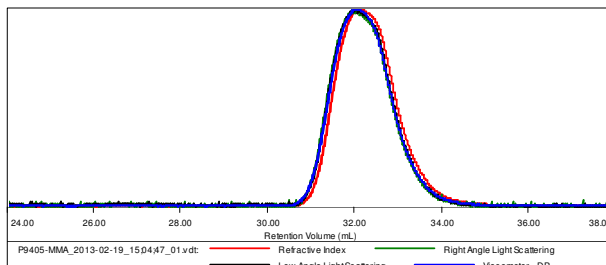
¹H NMR spectrum of the polymer



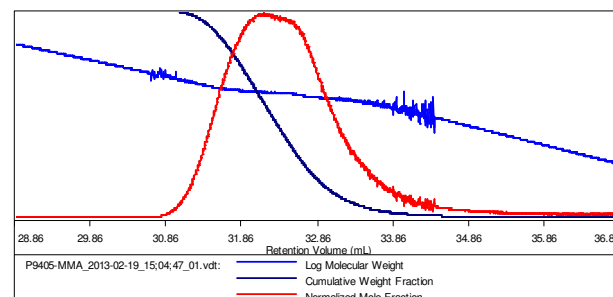
SEC elugram of the polymer

Sample ID: P9405-MMA

Concentration (mg/mL)	23.1820
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Feb-2013-0001.v cm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P9405-MMA_2013-02-19_15:04:47_01.v	62,542	65,772	66,962	1.052	0.3072



References for further information:

- (a) S. K. Varshney, R. Fayt, Ph. Teyssie, US Patent 5,629,393, 1997 (b) Ph. Bayard, R. Fayt, Ph.Teyssie and S. K. Varshney, Vuillemin B, Phillipe, H, US patent 5,677,387, 1997.(c) Ph. Bayard, R. Fayt, Ph.Teyssie and S. K. Varshney, B,Vuillemin, H. Phillipe, US patent 5,687,534, 1997.(d) S. K. Varshney, R. Fayt, Ph. Teyssie, US Patent 5,723,559, 1998. (e) Ph. Teyssie, S. K. Varshney, R. Jerome, R. Fayt US patent, 4,826,941., 1989.
- 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.
- 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.
- S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph.Teyssie *Macromolecules*, 1990, 23, 2618-2622.