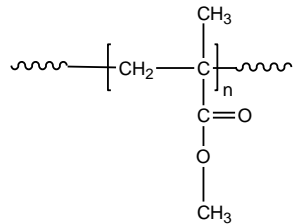


Sample Name: Poly (methyl methacrylate)  
Isotactic Form

Sample #: P40236-iMMA  
(iso contents over 45%)

Structure:



Composition:

Mn x 10 <sup>3</sup>	70.5
PDI	2.8
S;H:I	29:26:45
T <sub>g</sub>	71°C

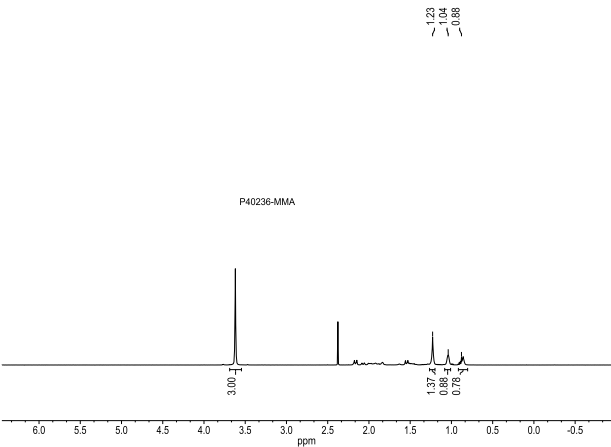
Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

Characterization:

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

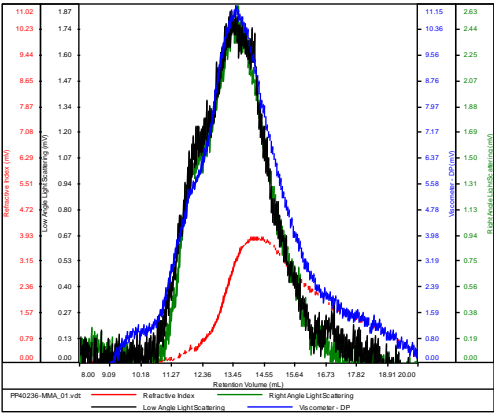
NMR of Isotactic PMMA



SEC of the Homopolymer:

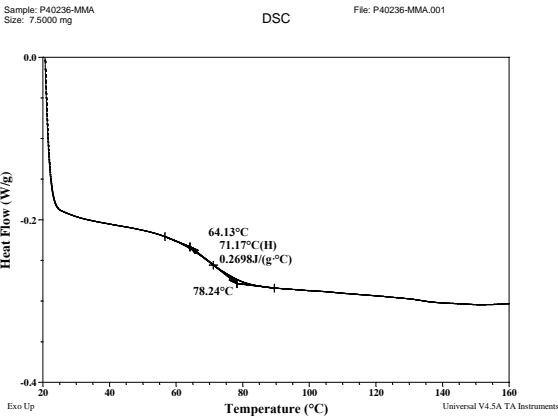
P40236-MMA

Conc (mg/mL)	0.6666
divdc (mL/g)	0.0650
Method	PS80k-October192016-0000.vcm
Solvent	DMF w 0.023MLiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
PP40236-MMA_01.vdt	70,513	201,239	193,164	2.854	0.6948

DSC thermogram of the polymer:



Summary of DSC results for PMMA of different tacticity:

PMMA microstructure	Tacticity Syndio : Iso : Hetero	T <sub>g</sub> (°C)
Syndiotactic >79%	79 : 19 : 2	120
Syndiotactic >85%	86 : 0 : 14	123
Isotactic >97%	0 : 97 : 3	44
Atactic	56 : 6 : 38	97

References for further information:

S. K. Varshney, R. Fayt, Ph. Teyssie, US Patent 5,629,393, 1997