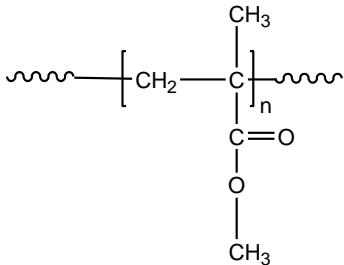


Sample Name: Poly (methyl methacrylate)
Different microstructure

Sample #: P40234-MMA

Structure:



Composition:

Mn x 10 ³	PDI
175.0	1.5
Syndio : Hetero : Iso	25 : 45 : 30
T _g	100.4 °C

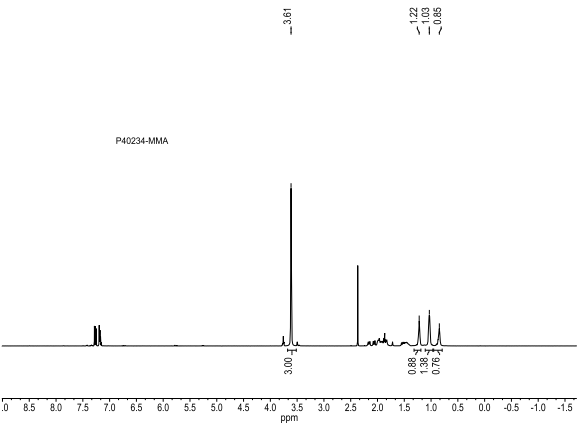
Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

Characterization:

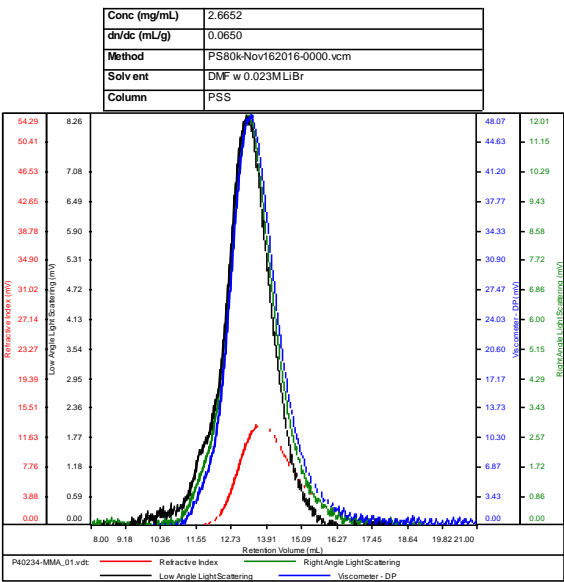
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

NMR of Isotactic PMMA



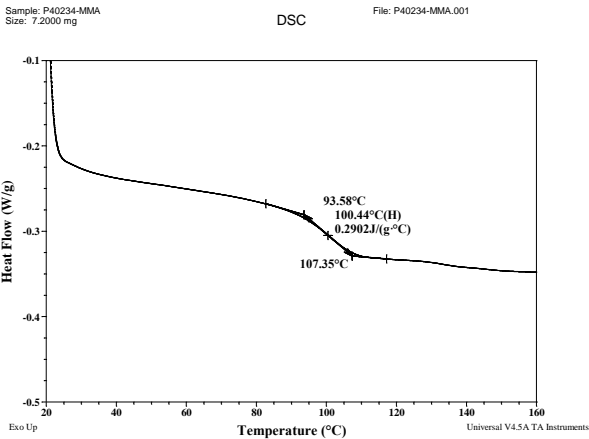
SEC of the Homopolymer:

P40234-MMA



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40234-MMA_01.vdt	175,067	265,389	247,977	1.516	0.3711

DSC thermogram of the polymer:



Summary of DSC results for PMMA of different tacticity:

PMMA microstructure	Tacticity Syndio : Iso : Hetero	T _g (°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