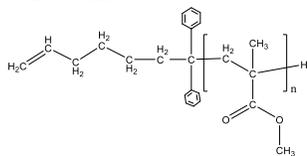


Sample Name: Poly(methyl methacrylate), α -vinyl-terminated; - syndiotactic

Sample #: P42279-MMA Vinyl

Structure:



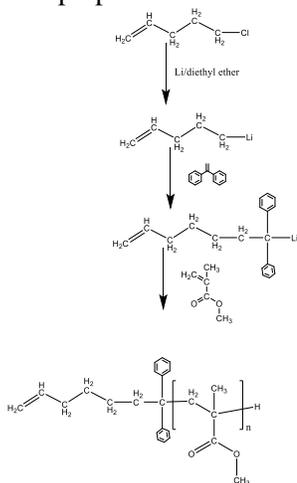
Composition:

Mn x 10 ³	PDI
7.0	1.06

Functionality:	100%
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Synthesis procedure:

The following reaction scheme shows how the product was prepared:



Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Agilent chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors.

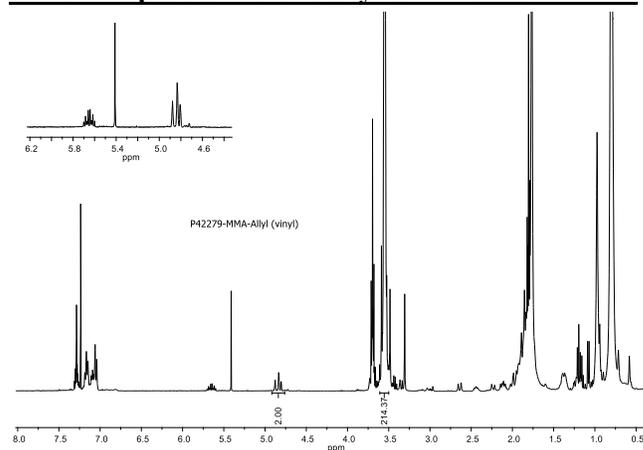
Functionality:

Functionality of the obtained polymer was determined by ¹H NMR.

Solubility:

Vinyl-terminated PMMA is soluble in DMF, THF, toluene, and CHCl₃. It precipitates from methanol, hexane and water.

¹H NMR spectrum of the allyl terminated PMMA:

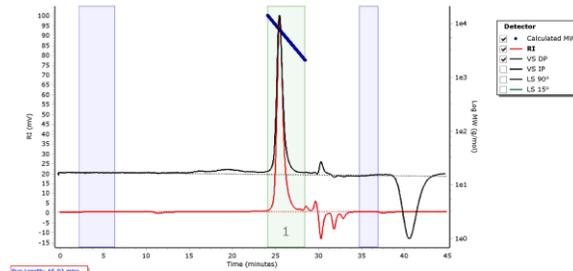


SEC elugram of the allyl terminated PMMA:

Agilent GPC/SEC Software

P42279-MMA-Allyl

Chromatogram Plot



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	7747	6994	7401	7708	7975	7657	1.058