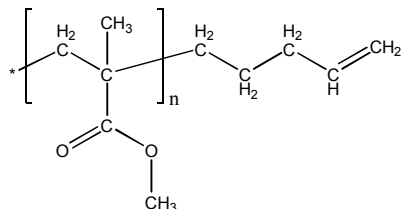


Sample Name: Olefinic vinyl-terminated
Poly(methyl methacrylate), syndiotactic rich > 80%

Sample # P987-MMA Vinyl

Structure:



Composition:

Mn x 10 ³	PDI
80.3	1.07
Functionality:	100%

Synthesis procedure:

Olefinic vinyl terminated poly(methyl methacrylate) was prepared by anionic process using pentenyl lithium as initiator

Characterization:

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

Functionality:

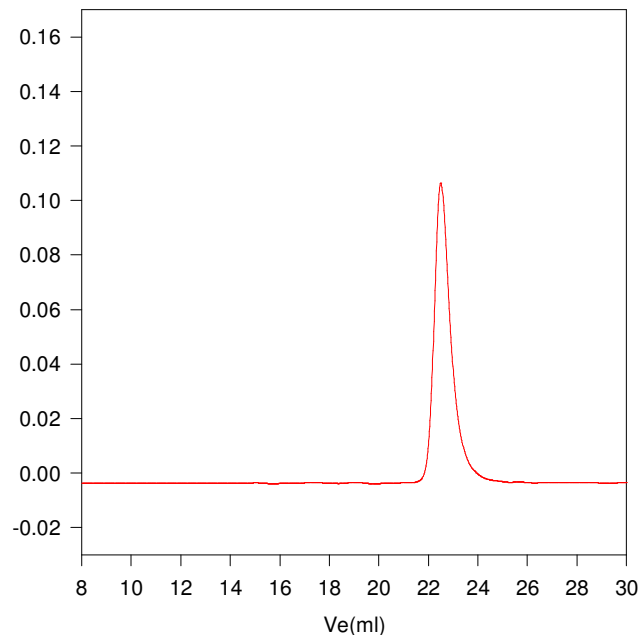
Functionality of the obtained polymer was determined by ¹H NMR.

Solubility:

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

SEC elugram:

P987-MMA



Size exclusion chromatography of poly(methyl methacrylate):

M_n=80,300, M_w=86,000, M_w/M_n=1.07