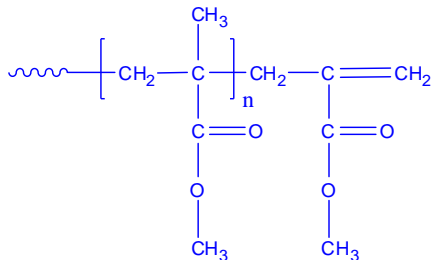


**Sample Name:** Vinyl Terminated

**Poly(methyl methacrylate)**

**Sample #:** P6432A-MMAVinyl

**Structure:**

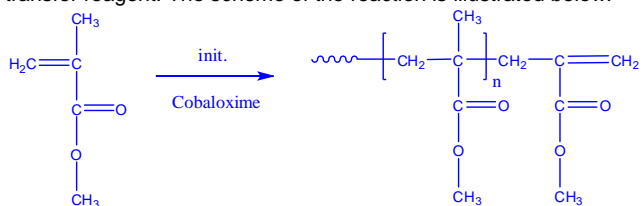


**Composition:**

Mn x 10 <sup>3</sup>	PDI
3.80	1.49

**Synthesis Procedure:**

Vinyl terminated poly(methyl methacrylate) macromonomer was prepared by free-radical polymerization with Cobaloxime as chain transfer reagent. The scheme of the reaction is illustrated below:



**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.

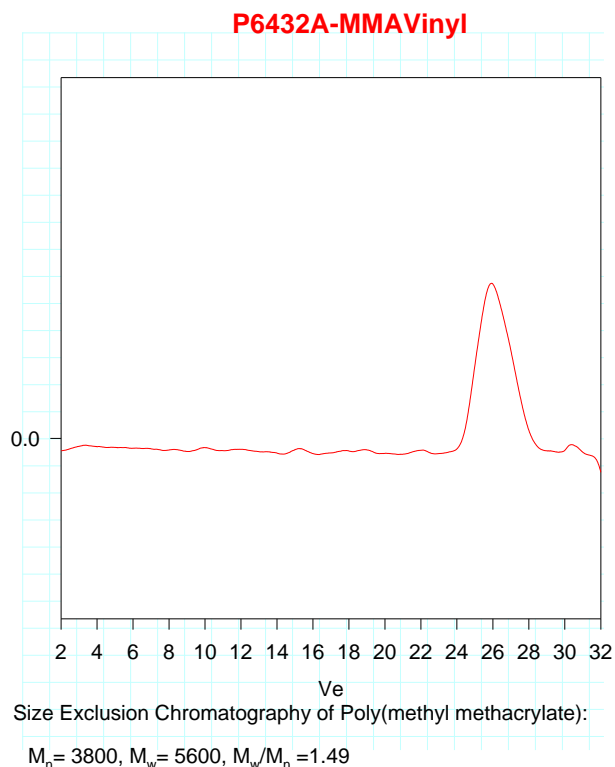
**Functionality:**

functionality of the obtained polymer was determined by proton NMR.

**Solubility:**

Vinyl terminated PMMA is soluble in DMF, THF, toluene, and CHCl<sub>3</sub>. It precipitates from methanol, hexane, water.

**SEC of Sample:**



**NMR spectrum of Polymer:**

