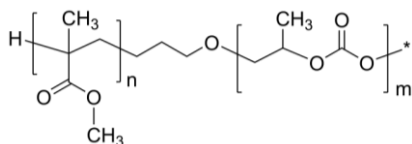


**Sample Name:** Poly(methyl methacrylate)-b-poly(propylene carbonate)

**Sample #:** P43077-MMAPPCC

**Structure:**

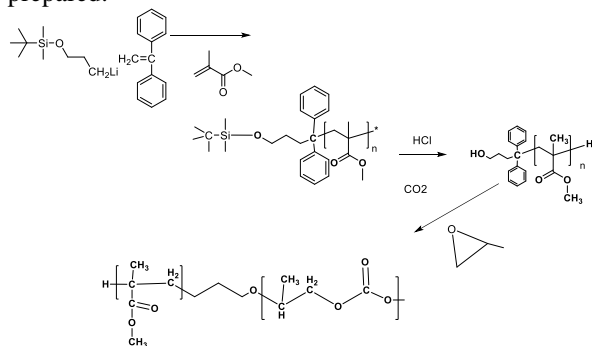


**Composition:**

Mn x 10 <sup>3</sup> MMA-PPC	PDI
8.5-b-14.0	1.08

**Synthesis Procedure:**

The following reaction scheme shows how the product was prepared:



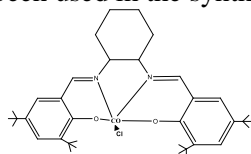
**Characterization:**

Polymer analyzed by size exclusion chromatography (SEC) and by <sup>1</sup>H-NMR data analysis.

**Solubility:**

The polymer is soluble in THF, toluene, and CHCl<sub>3</sub>.

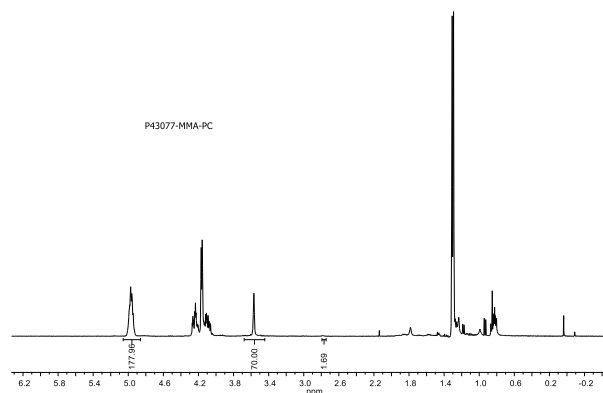
**Purification** of the polymer to remove homopolycarbonate fraction generated by Ionic polymerization of Propylene oxide by the following catalyst : (R,R)-N,N'-Bis(3,5-di-tert-butylsalicylidene)-1,2-cyclohexanediaminocobalt(II) chloride which has been used in the synthesis:



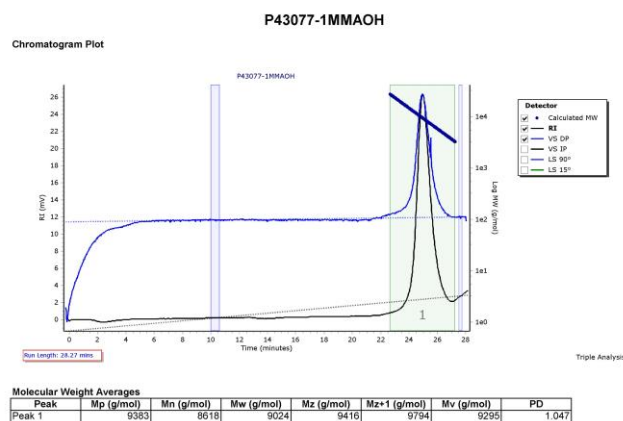
Product was purified to remove:

1. Homopolystyrene if any
  2. Homopoly propylene carbonate
- Using solvent /non solvent mixture and the purification followed by SEC profile.

**<sup>1</sup>H-NMR Spectrum of the product:**



**SEC elugram of PMMAOH:**



**SEC elugram of the polymer:**

