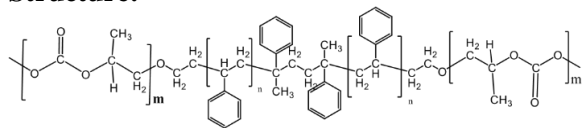


Sample Name:

**Poly(propylene carbonate)-b-poly(styrene)-b-poly(propylene carbonate)**

Sample #: **P43060-PPCSPPC**

**Structure:**

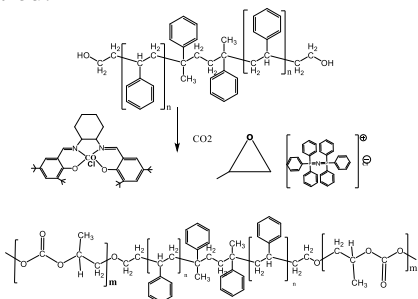


**Composition:**

Mn x 10 <sup>3</sup> PPC-b-S-b-PPC	PDI
7.0-10.0-7.0	1.07

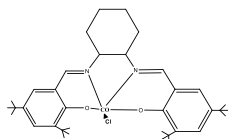
**Synthesis Procedure:**

The following reaction scheme shows how the product was prepared:



**Purification:**

The polymer was purified 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 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.

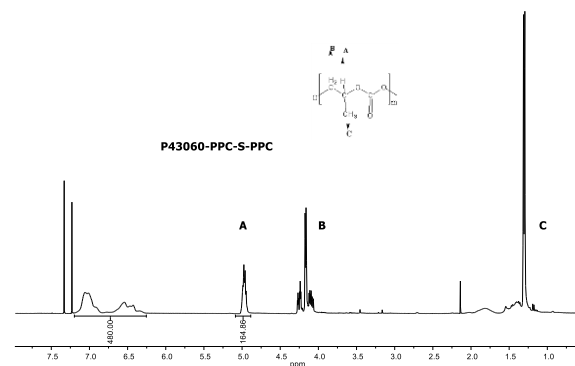
**Characterization:**

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

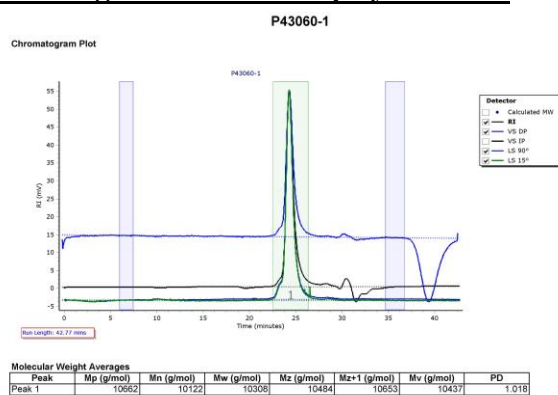
**Solubility:**

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

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



**SEC elugram of the S2OH polymer used:**



**SEC elugram of the polymer:**

