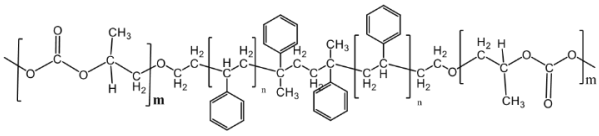
Sample Name:
Poly(propylene carbonate)-b-poly(styrene)-b-poly(propylene carbonate)

Sample#: **P43060D-PPCSPPC**

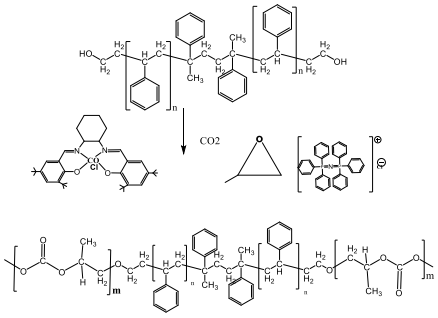
Structure:



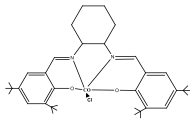
Composition:

Mn x 10^3 PPC-b-S-b-PPC	PDI
1.5-10.0-1.5	1.10

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:



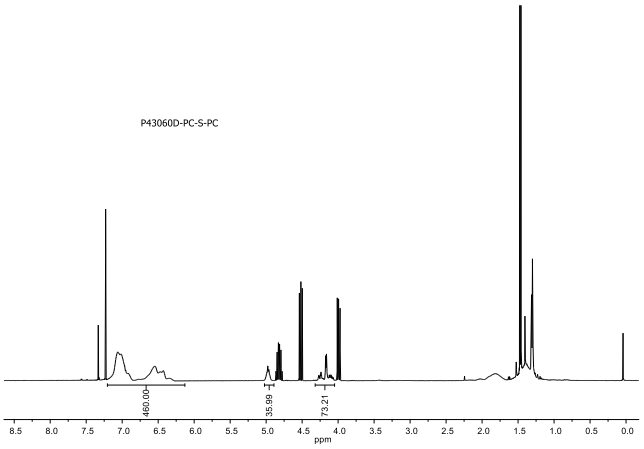
Product was purified to remove:

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

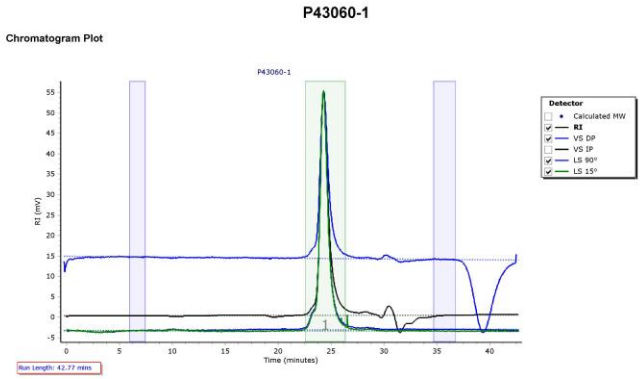
Characterization:
Polymer analyzed by size exclusion chromatography (SEC) and ^{1}H-NMR data analysis.

Solubility:
The polymer is soluble in THF, toluene, and $CHCl_3$.

^{1}H-NMR Spectrum of the product:



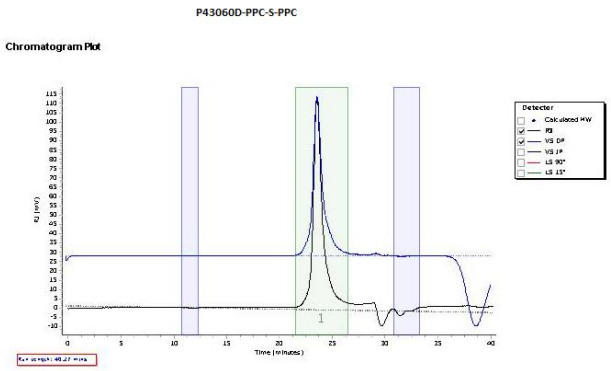
SEC elugram of the S2OH sample used:



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	10662	10122	10308	10484	10653	10437	1.018

SEC elugram of the polymer:



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	17554	14920	16440	17729	18987	17123	1.102