Sample Name:

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

Sample#: P43068B-SPPC

Structure:

Composition:

Mn x 10 ³ S-b-PPC	PDI
11.5-5.0	1.06

Synthesis Procedure:

The following reaction scheme shows how the product was prepared:

Characterization:

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

Solubility:

The polymer is soluble in THF, toluene, and CHCl₃.

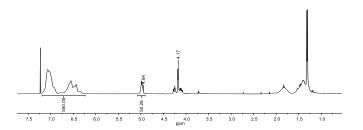
Purification of the polymer to remove homopolycarbonate fraction generated by Ionic polymerization of Propylene oxide by the following catalyst :(R,R)-N,N'-Bis(3,5-di-tert-butylsalicylidene)-1,2-cyclohexanediaminocobalt(II) chloride used in the synthesis:

Product was purified to remove:

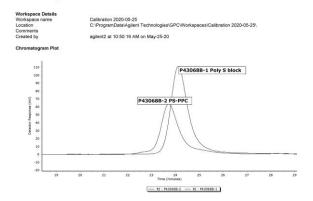
- 1. Hompolystyrene if any
- 2. Homopoly propylene carbonate
 Using solvent /non solvent mixture and the purification followed by SEC profile.

¹H-NMR Spectrum of the product:

P43068B-S-PC 11,500-b-5000



SEC elugram of the polymer:



P43068B-2

