

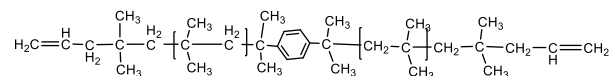
Sample Name:

**$\alpha,\omega$ -Di Allyl end terminated Polyisobutylene**

*Using dicumyl Chloride initiator*

Sample #: **P44274-IB2Allyl**

**Structure:**

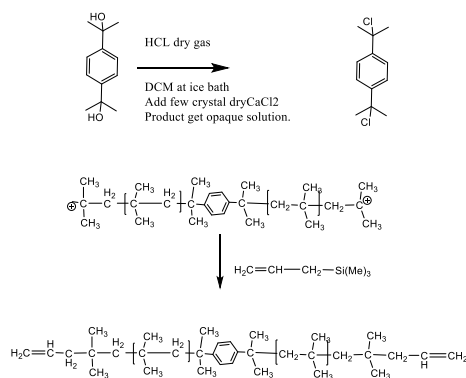


**Composition:**

Mn x 10 <sup>3</sup>	PDI
1.2	1.25
Allyl Functionality ~95%	

**Synthesis Procedure:**

Allyl terminated polyisobutylene was prepared by cationic living polymerization of isobutylene:



**Characterization:**

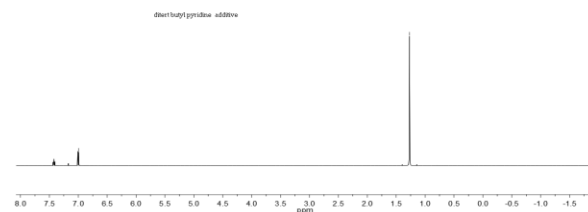
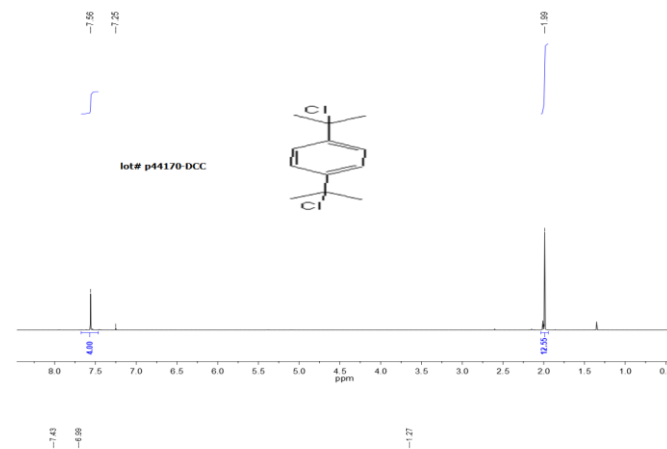
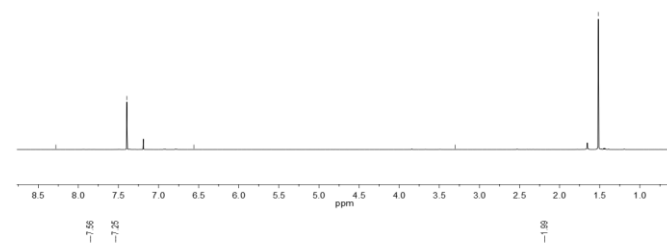
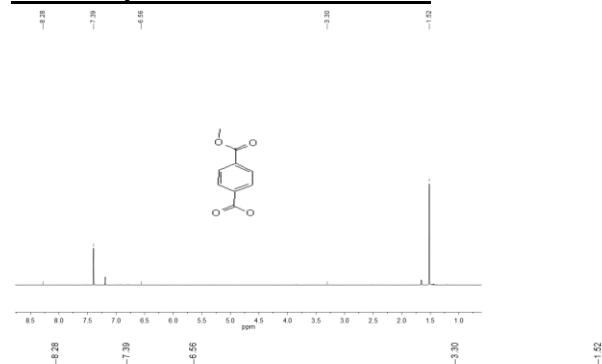
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Functionality:** The polymer's functionality was determined by <sup>1</sup>H-NMR spectroscopy.

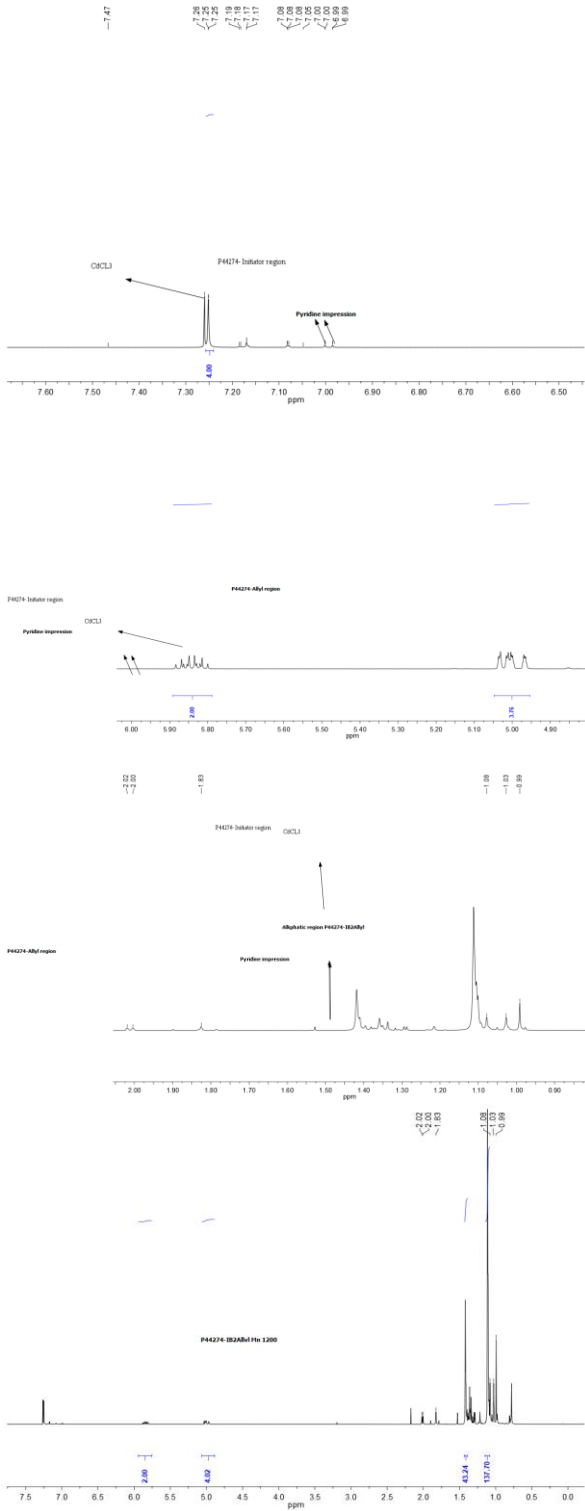
**Solubility:**

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

**<sup>1</sup>H-NMR spectrum of the Initiator:**



Different region of P44274-IB2Allyl HNMR:



SEC profile of the Sample:

