

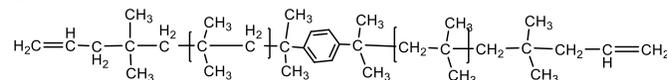
Sample Name:

α,ω -Di Allyl end terminated Polyisobutylene

Using dicumyl Chloride initiator

Sample #: P44172A-IB2Allyl

Structure:

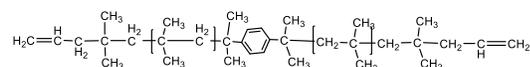
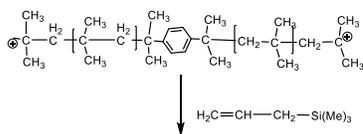
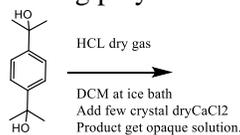


Composition:

Mn x 10 ³	PDI
2.0	1.35
Allyl Functionality ~95%	
Purified by Soxhlet in Hot Acetone	

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.

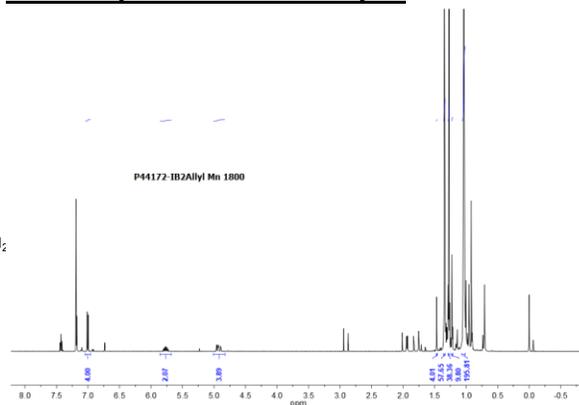
Functionality:

The polymer's functionality was determined by ¹H-NMR spectroscopy.

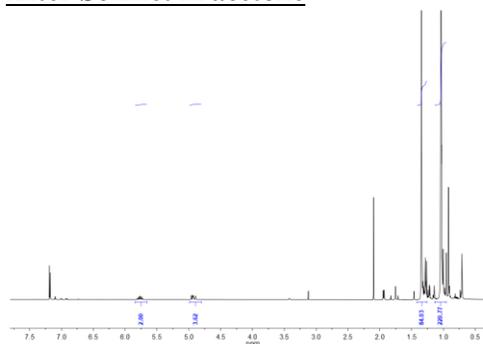
Solubility:

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

HNMR spectrum of the sample:



After Soxhlet in acetone



SEC profile of the Sample:

