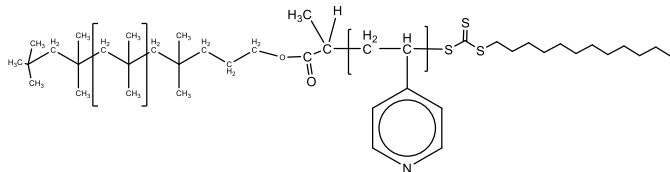


Sample Name:

Poly(isobutylene)-b-poly(4-vinyl pyridine)

Sample #: P42383A-IB4VP

Structure:

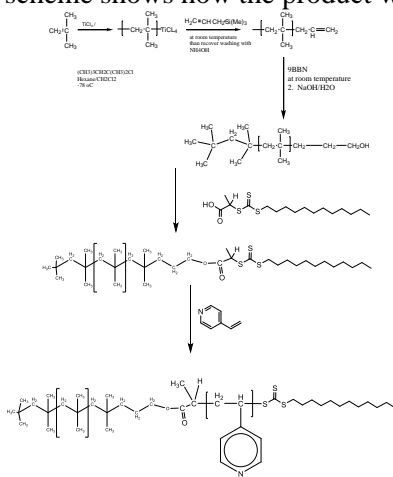


Composition:

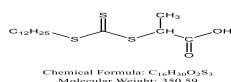
Mn × 10 ³ Ib-b-4VP	Mw/Mn (PDI)
7.0-b-45.0	1.3

Synthesis Procedure:

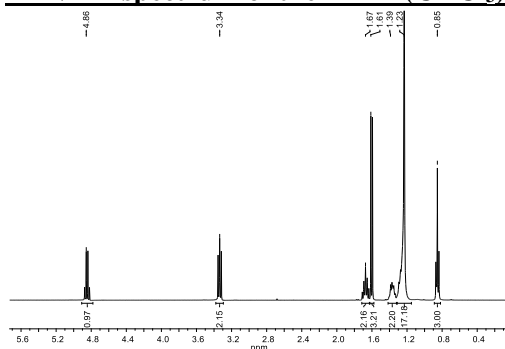
The polymer was synthesized by Cationic and RAFT polymerization process. The following reaction scheme shows how the product was prepared:



RAFT reagent used:



¹H NMR spectrum of the RAFT(CDCl₃):

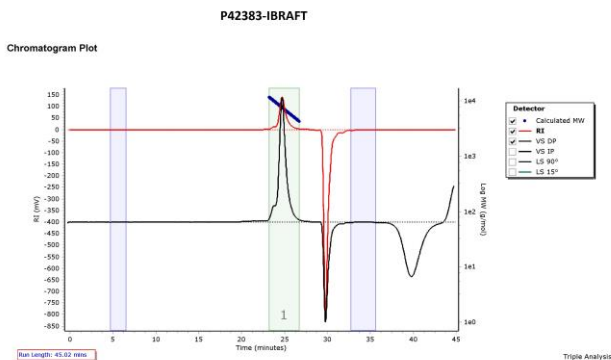


Solubility:

Poly(isobutylene)-b-4VP is soluble in THF, and Chloroform.

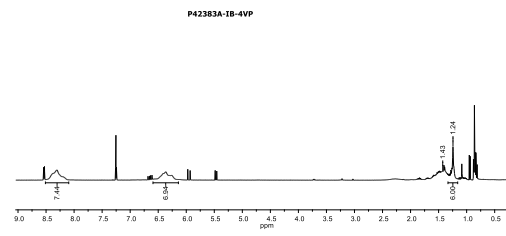
SEC of RAFT IB macroinitiator:

Agilent GPC/SEC Software



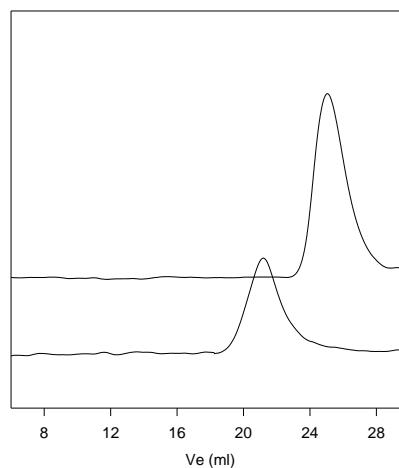
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	7621	7237	7419	7597	7774	7559	1.025

¹H NMR spectrum of the IB-4VP in (CDCl₃):



SEC profile of the Sample:

P42383A-IB-4VP



— Polyisobutylene, M_n=7,200, M_w=7500, PI=1.02
— Block Copolymer PIB(7,200)-b-P4VP(45000), PI=1.3