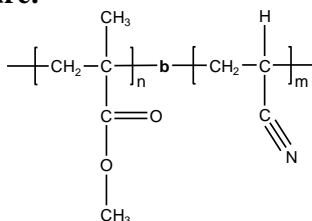


Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: P41177C-MMAACN
PMMA block rich in Syndiotactic fraction

Structure:



Composition:

Mn × 10 ³ MMA-b-ACN	Mw/Mn (PDI)
7.0-b-14.0	1.18

Color of the Product : Dark Brown

Synthesis Procedure:

The polymer is prepared by controlled radical polymerization process.

PACN-Br macroinitiator prepared by controlled radical process in ethylene carbonate as solvent.

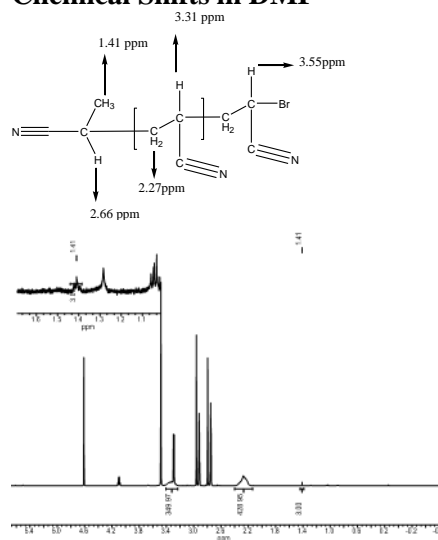
Characterization:

The polymer was characterized by ¹H NMR and size exclusion chromatography (SEC) in DMF.

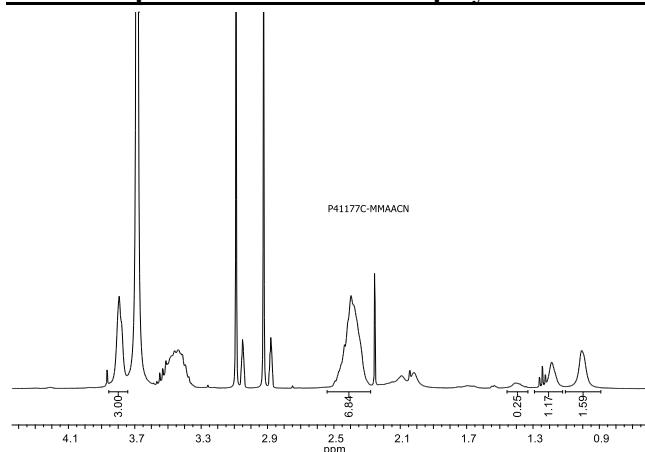
Composition determined by HNMR and Distribution in DMF by GPC.

¹H NMR spectrum of the PACN-Br macroinitiator in DMF

Chemical Shifts in DMF



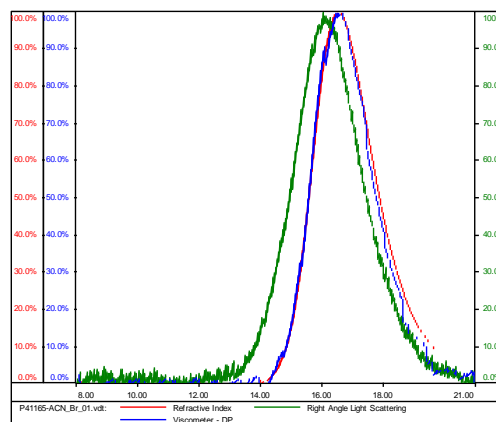
¹H NMR spectrum of the Block copolymer in DMF:



SEC elugram of the PACN-Br macroinitiator in DMF:

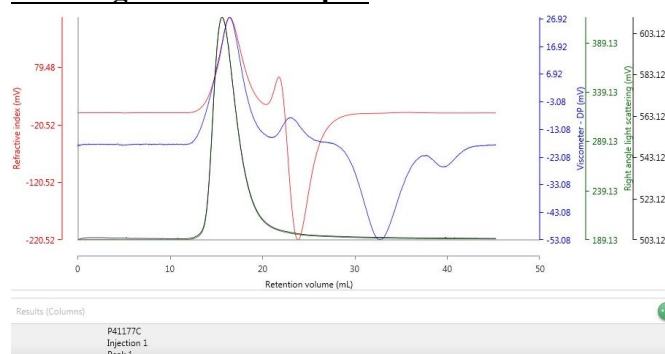
P41165-ACN-BR

Conc	4.4272
dn/dc	0.0920
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41165-ACN-Br_01.vdt	14,108	21,080	14,961	1.494	0.7375

SEC elugram of the Sample:



Composition from HNMR and Mw/Mn by GPC in DMF