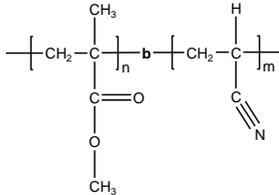


Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P41245A-MMAACN**
PMMA block rich in Syndiotactic fraction

Structure:



Composition:

Mn × 10 ³ MMA-b-ACN	Mw/Mn (PDI)
3.0-b-25.0	1.27

Color of the Product: Brown color

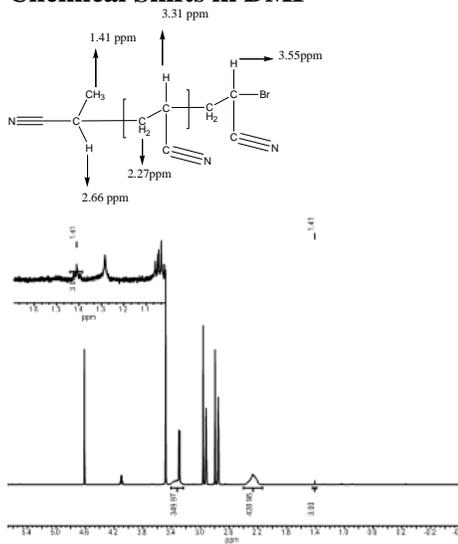
Synthesis Procedure:

The polymer is prepared by controlled radical polymerization process. PACN-Br macroinitiator prepared by controlled radical process in ethylene carbonate as solvent.

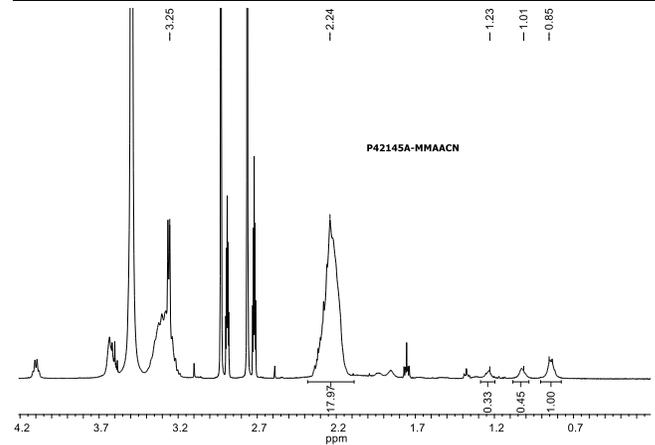
Characterization:

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:
Chemical Shifts in DMF



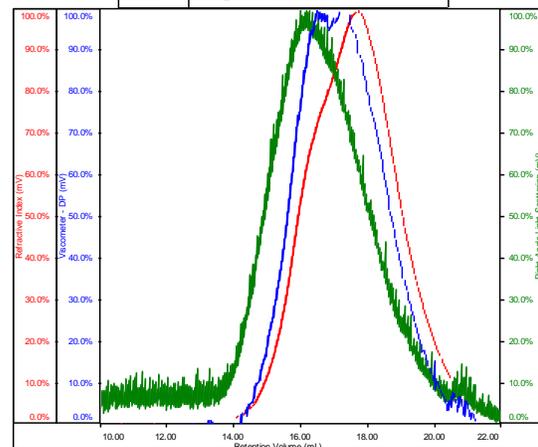
¹H NMR spectrum of the Block copolymer in DMF:



SEC elugram of the PACN-Br macroinitiator:

P40200BC-ACN-Br For P41245

Conc	10.7323
dn/dc	0.0920
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	FS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40200BC-ACN-BR_01.vdt	24,910	36,427	21,449	1.462	0.9435