Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P41245-MMAACN**
PMMA block rich in Syndiotactic fraction

Structure:
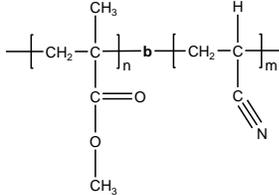
Composition:

Mn × 10^3 MMA-b-ACN	Mw/Mn (PDI)
31.0-b-25.0	1.27
Color of the Product : Ivory 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 ^{1}H NMR and size exclusion chromatography (SEC) in DMF.
Composition determined by HNMR and Distribution in DMF by GPC.

^{1}H NMR spectrum of the PACN-Br macroinitiator in DMF: Chemical Shifts in DMF
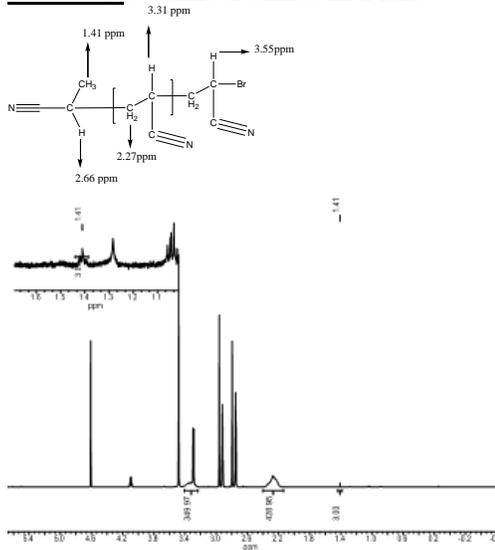
^{1}H NMR spectrum of the Block copolymer in DMF:
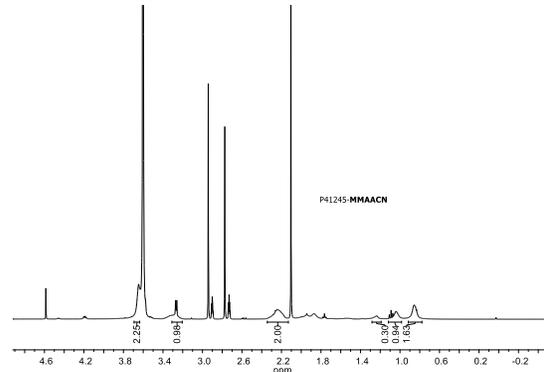
SEC elugram of the PACN-Br macroinitiator in DMF:

P40200BC-ACN-Br For P41245

Conc	10.7323
dn/dc	0.0920
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm
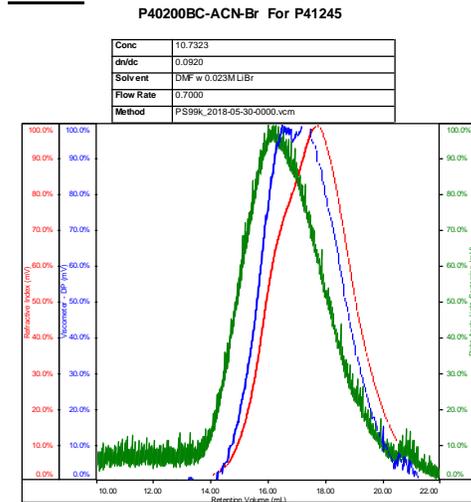
Sample	Mn	Mw	Mp	Mw/Mn	IV
P40200BC-ACN-BR_01.vdt	24,910	36,427	21,449	1.462	0.9435

SEC elugram of the Sample:

P41245-2

Conc	8.8290
dn/dc	0.0880
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm
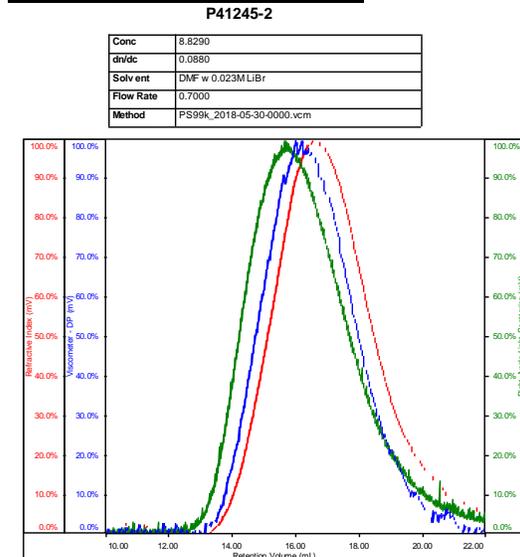
Sample	Mn	Mw	Mp	Mw/Mn	IV
P41245-MMAACN_01.vdt	56,278	71,445	58,165	1.269	1.1546