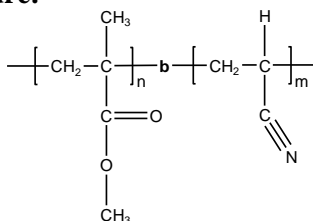


Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P41165-MMAACN**
PMMA block rich in Syndiotactic fraction

Structure:



Composition:

$M_n \times 10^3$ MMA-b-ACN	M_w/M_n (PDI)
12.0-b-14.0	1.25

Color of the Product : Dark Brown

Synthesis Procedure:

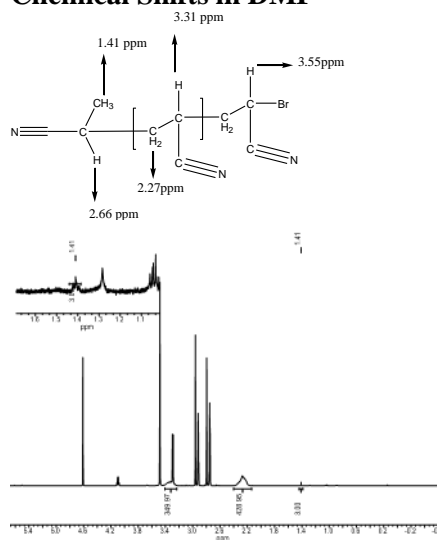
The polymer is prepared by controlled radical polymerization process.
PACN-Br macroinitiator prepared by controlled radical process in ethylene carbonate as solvent.

Characterization:

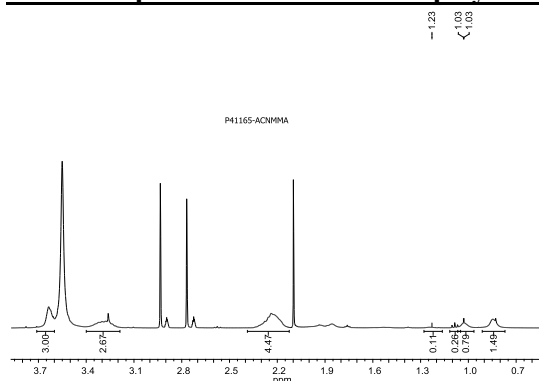
The polymer was characterized by ^1H NMR and size exclusion chromatography (SEC) in DMF.
Composition determined by HNMR and Distribution in DMF by GPC.

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

Chemical Shifts in DMF



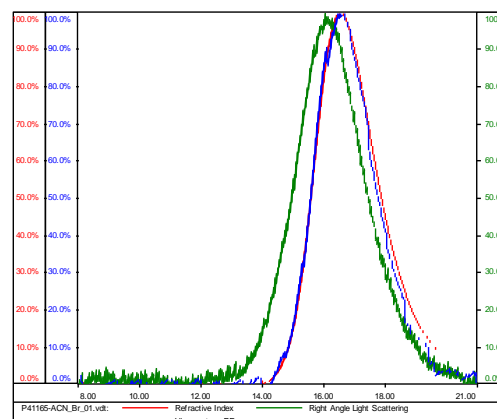
^1H NMR spectrum of the Block copolymer in DMF:



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	M_n	M_w	M_p	M_w/M_n	PDI
P41165-ACN_Br_01.vdt	14,108	21,080	14,961	1.494	0.7375

SEC elugram of the Sample:

P41165-ACN-MMA

Conc	4.0000
dn/dc	0.0920
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm

