Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P41229-MMAACN**
PMMA block rich in Syndiotactic fraction

Structure:
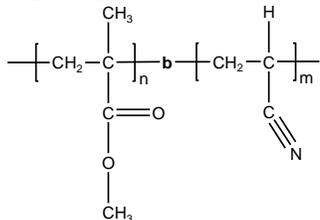
Composition:

Mn × 10³ MMA-b-ACN	Mw/Mn (PDI)
29.5-b-2.0	1.27

Color : light yellow

Synthesis Procedure:

The polymer is prepared by anionic polymerization process. First MMA followed by addition of ACN monomer.

Characterization:

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

Solubility:

Polymer is soluble DMF and precipitated in methanol and hexanes.

HNMR spectrum of Block Copolymer in DMF:
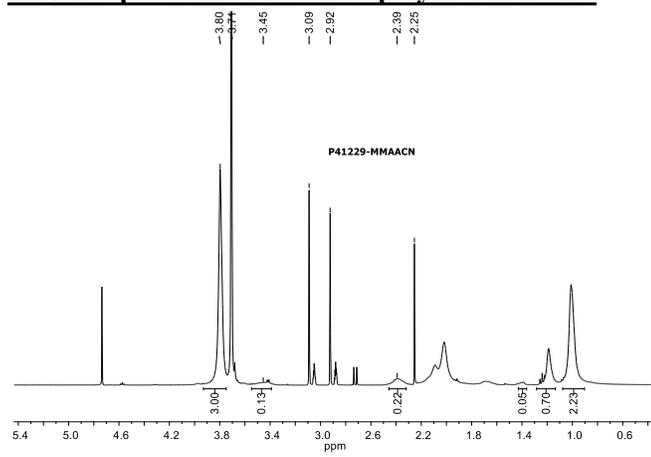
P41229-MMAACN

SEC elugram of the PMMA block:

P41229--MMA block

Conc	2.5961
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm
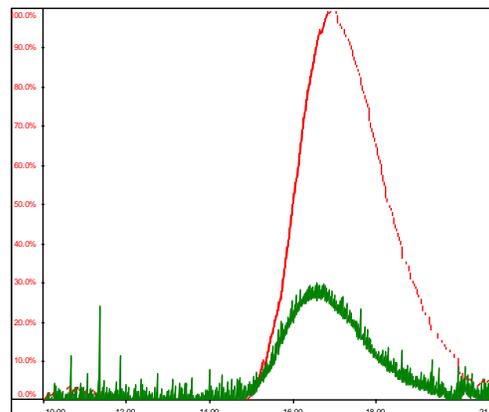
Sample	Mn	Mw	Mp	Mw/Mn	IV
P41229-1_01.vdt	29,620	34,675	33,278	1.171	0.3977

SEC elugram of the Sample:

P41229--MMA ACN

Conc	4.9827
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm
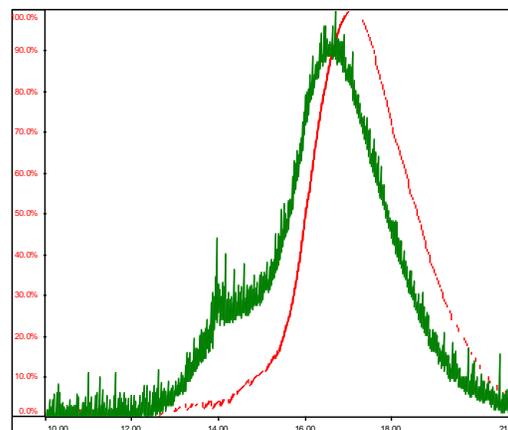
Sample	Mn	Mw	Mp	Mw/Mn	IV
P41229-2_01.vdt	32,421	41,114	36,489	1.268	0.6734