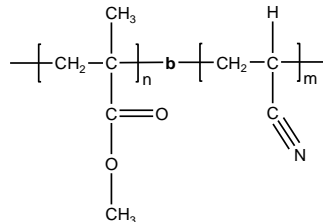


Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: P41222-MMAACN
PMMA block rich in Syndiotactic fraction

Structure:



Composition:

Mn × 10 ³ MMA-b-ACN	Mw/Mn (PDI)
42.0-b-6.0	1.38

Color : light yellow

Synthesis Procedure:

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

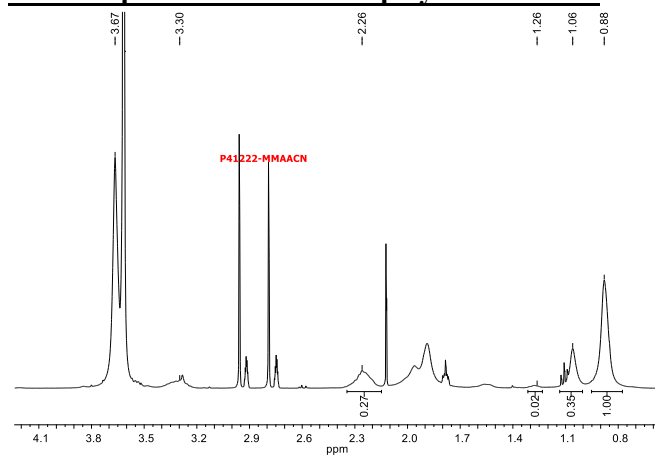
Characterization:

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.

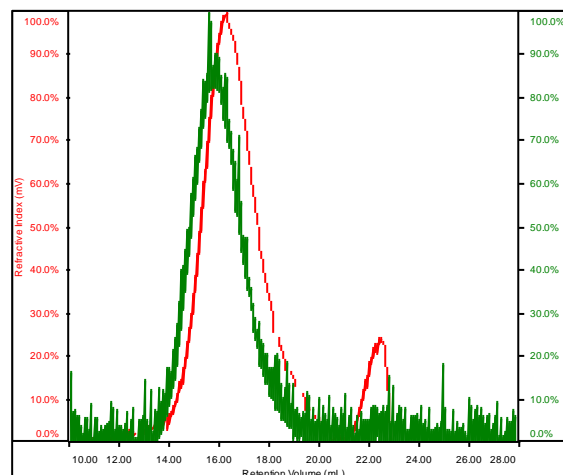
HNMR spectrum of Block Copolymer in DMF:



SEC elugram of the PMMA block:

P41222-MMA

Conc	3.0761
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm

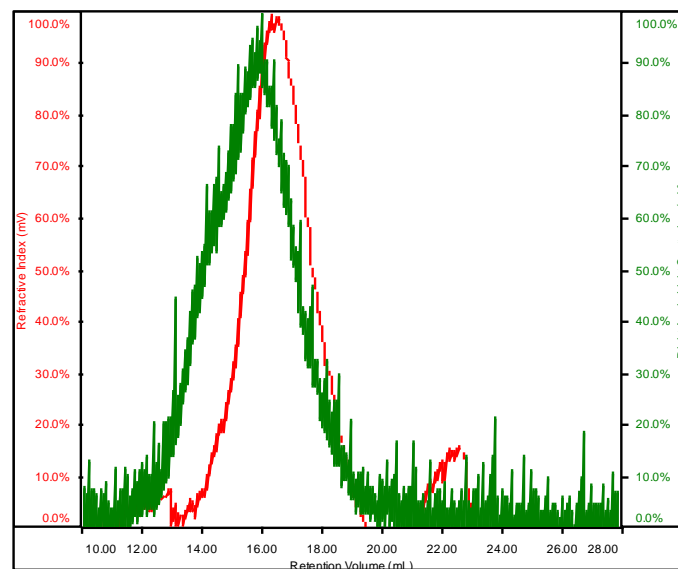


Sample	Mn	Mw	Mp	Mw/Mn	IV
P41222-1_01(67).vdt	42,346	49,306	46,855	1.164	0.5351

SEC elugram of the Sample:

P41222-MMAACN

Conc	1.7106
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
P41222-2_01(65).vdt	47,751	66,276	44,664	1.388	0.7168