

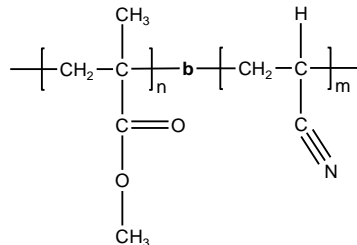
Sample Name:

Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P41153-MMAACN**

PMMA block rich in Syndiotactic fraction

Structure:



Composition:

$\text{Mn} \times 10^3$ MMA-b-ACN	Mw/Mn (PDI)
3.0-b-80.0	2.3

Color : ivory

Synthesis Procedure:

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

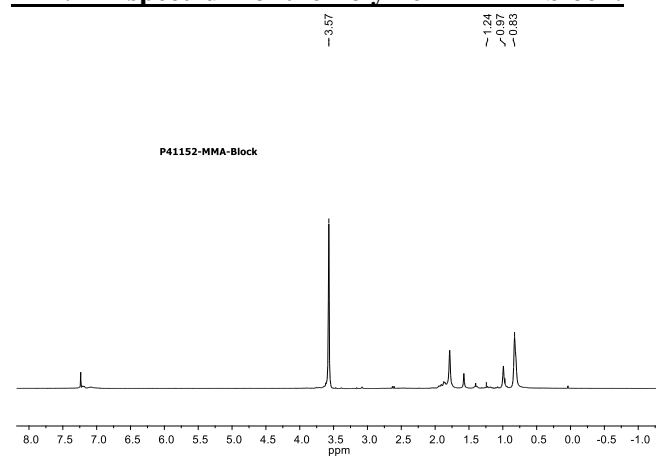
Characterization:

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

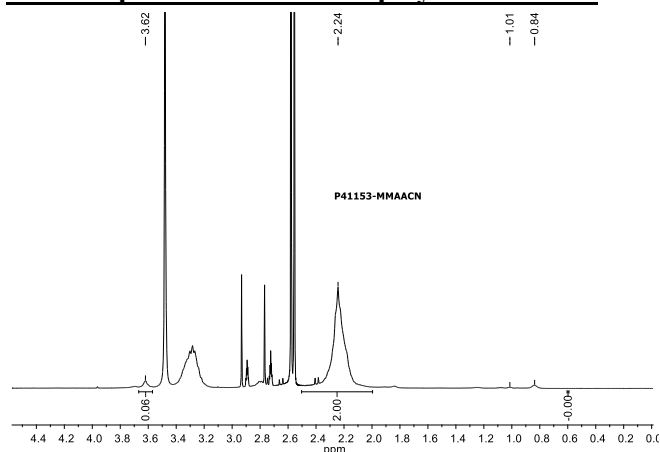
Solubility:

Polymer is soluble in THF, Chloroform, DMF, and precipitated in methanol and hexanes.

^1H NMR spectrum of the Polymer PMMA block:



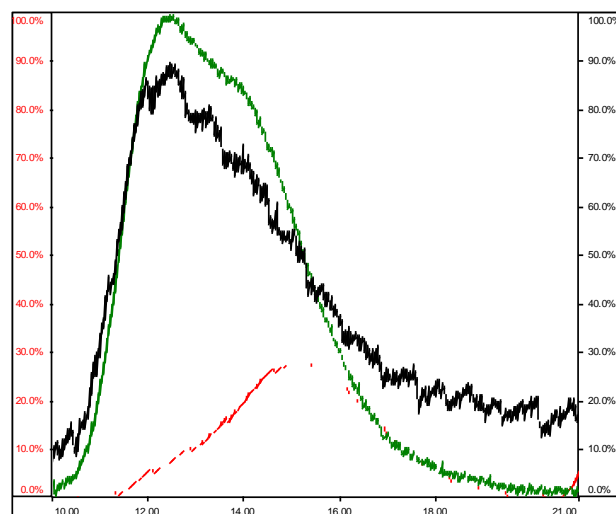
^1H NMR spectrum of Block Copolymer in DMF:



SEC elugram of the Sample:

P41153-ACNMMA

Conc	0.9642
dn/dc	0.0900
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41153-ACN_01.vdt	80,298	189,871	113,103	2.365	2.6987