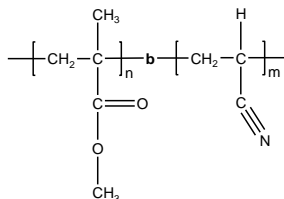


Sample Name: Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: P14420A-MMAACN

PMMA block rich in Syndiotactic fraction

Structure:



Composition:

Mn $\times 10^3$ MMA-b-ACN	Mw/Mn (PDI)
11.0-b-32.0	1.35

Synthesis Procedure:

Polymer is prepared by combination of anionic polymerization and controlled radical process.

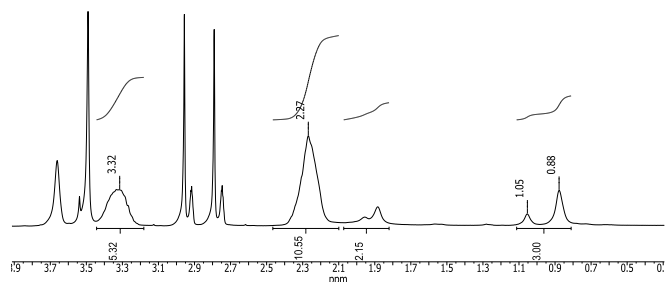
Characterization:

The polymer composition was characterized by ^1H NMR in DMF by comparing methylene group in acrylonitrile (3.31 ppm) with methyl group in MMA (0.8-1.1 ppm). The polydispersity was determined by size exclusion chromatography (SEC) in DMF.

Solubility:

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

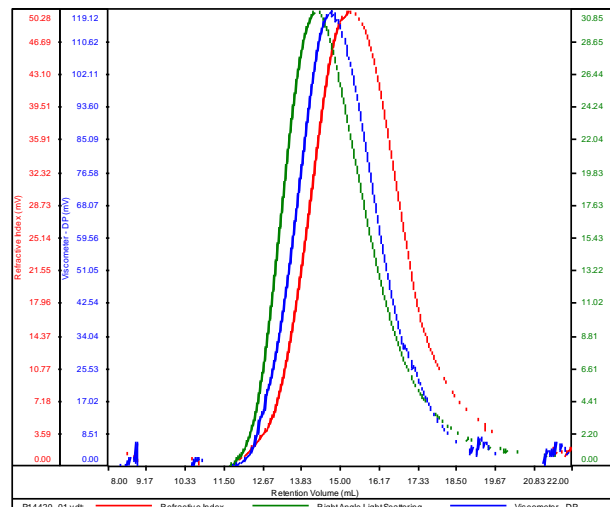
^1H NMR spectrum of the Polymer in DMF:



SEC elugram of the polymer:

P14420A

Conc	3.0784
dn/dc	0.2050
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-02-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14420_01.vdt	43,014	58,096	46,770	1.351	1.3152