

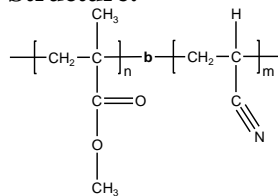
Sample Name:

**Poly (Methylmethacrylate-b-Acrylonitrile)**

Sample #: **P41014-MMAACN**

*PMMA block rich in Syndiotactic*

**Structure:**



**Composition:**

$M_n \times 10^3$ MMA-b-ACN	$M_w/M_n$ (PDI)
102.0-b-8.5	2.4

Color : Orange color

**Synthesis Procedure:**

Polymer is prepared by anionic polymerization process, the sequence of monomers is ACN monomer added first, followed by MMA monomer.

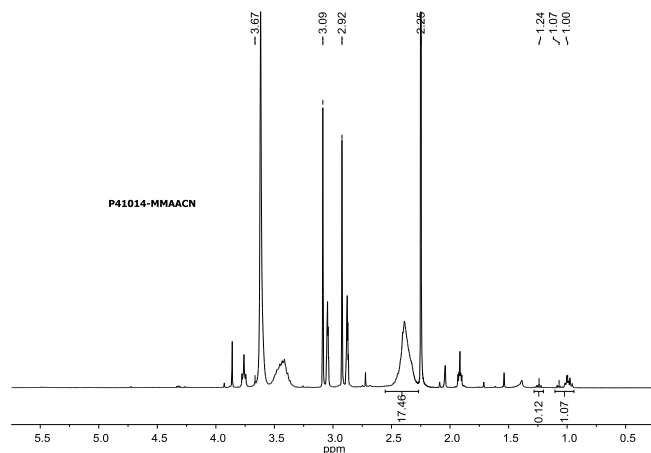
**Characterization:**

The polymer was characterized by size exclusion chromatography (SEC) in DMF and  $^1\text{H}$  NMR.

**Solubility:**

Polymer is soluble in DMF.

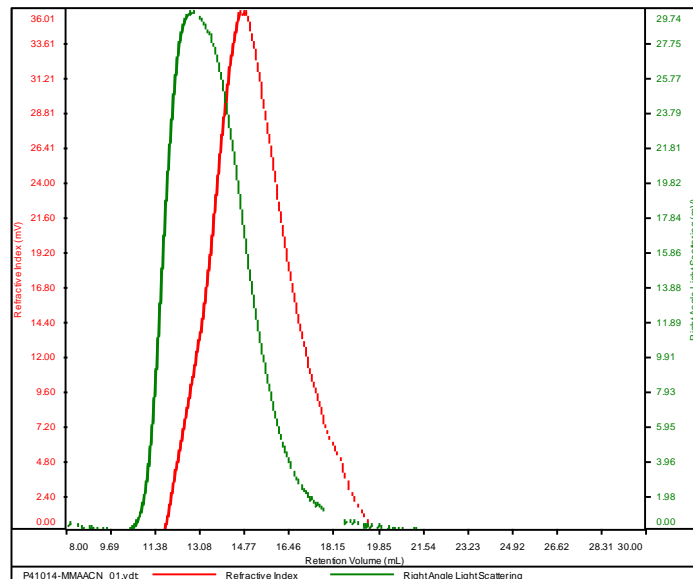
**$^1\text{H}$  NMR spectrum of the Polymer in DMF:**



**SEC elugram of the polymer:**

**P41014-ACN\_MMA**

Conc	7.7525
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-03-09-0000.vcm



Sample	$M_n$	$M_w$	$M_p$	$M_w/M_n$	IV
P41014-MMAACN_01.vdt	110,455	267,171	143,295	2.419	1.0108