

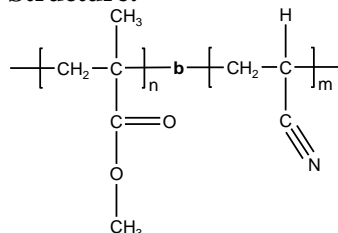
Sample Name:

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

Sample #: **P41046-MMAACN**

*PMMA block rich in Syndiotactic Fraction*

**Structure:**



**Composition:**

$M_n \times 10^3$ MMA-b-ACN	$M_w/M_n$ (PDI)
270.0-b-22.0	1.3

Color : Orange color

**Synthesis Procedure:**

Polymer is prepared by anionic polymerization process.

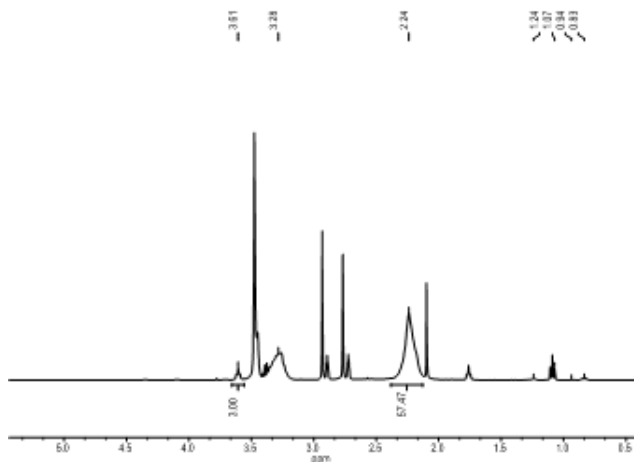
**Characterization:**

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

**Solubility:**

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

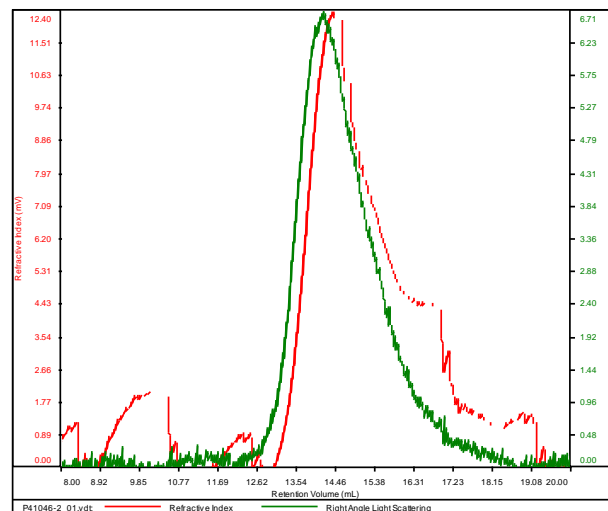
**$^1\text{H}$  NMR spectrum of the Polymer in DMF:**



**SEC elugram of the polymer:**

**P41046-MMAACN**

Conc	1.6073
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
P41046-2_01.vdt	292,734	381,463	275,653	1.303	0.3989