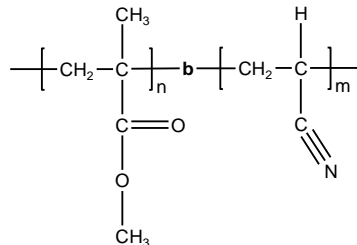


Sample Name:  
**Poly (Methylmethacrylate-b-Acrylonitrile)**

Sample #: **P41063-MMAACN**  
*PMMA block rich in Syndiotactic fraction*

**Structure:**



**Composition:**

| $M_n \times 10^3$<br>MMA-b-ACN | Mw/Mn (PDI) |
|--------------------------------|-------------|
| 72.0-b-69.0                    | 1.7         |

Color : Orange color

**Synthesis Procedure:**

The polymer is prepared by anionic polymerization process.

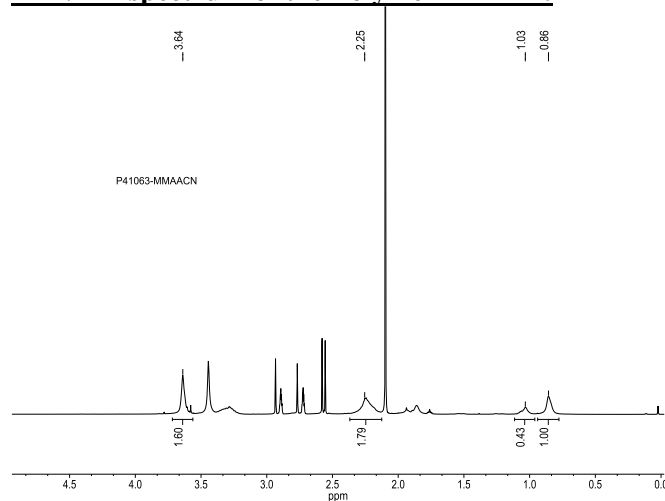
**Characterization:**

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

**Solubility:**

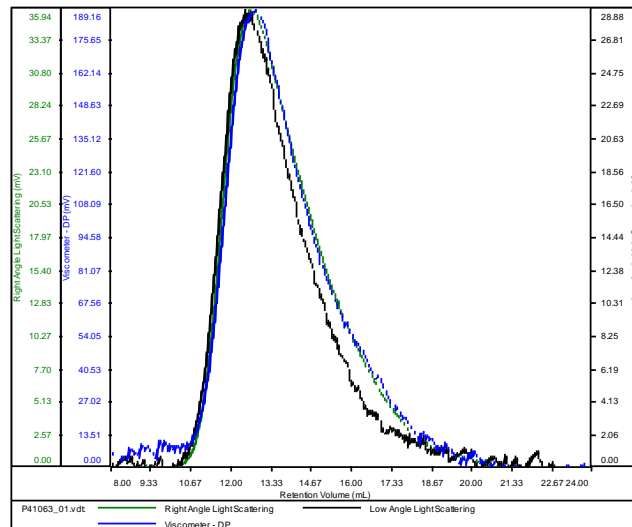
Polymer is soluble in THF, Chloroform, DMF, and precipitated in methanol and hexanes.

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



**SEC elugram of the polymer:**  
**P41063-MMAACN**

|           |                           |
|-----------|---------------------------|
| Conc      | 6.0491                    |
| dn/dc     | 0.0650                    |
| Solvent   | DMF w 0.023M LiBr         |
| Flow Rate | 0.7000                    |
| Method    | PS80k_2018-02-22-0000.vcm |



| Sample        | Mn      | Mw      | Mp      | Mw/Mn | IV     |
|---------------|---------|---------|---------|-------|--------|
| P41063_01.vdt | 141,280 | 235,598 | 122,882 | 1.668 | 0.7745 |