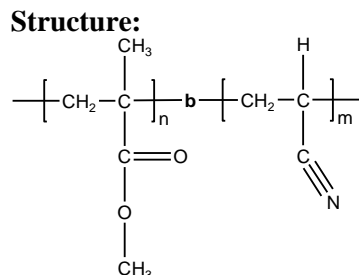


**Sample Name:**  
**Poly (Methylmethacrylate-b-Acrylonitrile)**

**Sample #:** **P42965A2-MMAACN**  
*PMMA rich in Syndiotactic*



### Composition:

$\text{Mn} \times 10^3$ MMA-b-ACN	Mw/Mn (PDI)
14.5-b-15.0	1.08

### Synthesis Procedure:

The polymer is prepared by RAFT polymerization process. First MMA RAFT macroinitiator followed by ACN monomer.

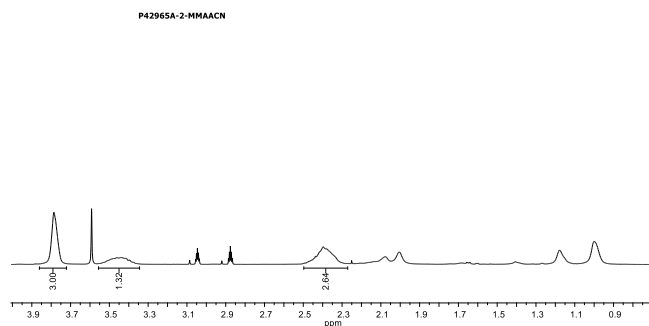
### Characterization:

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

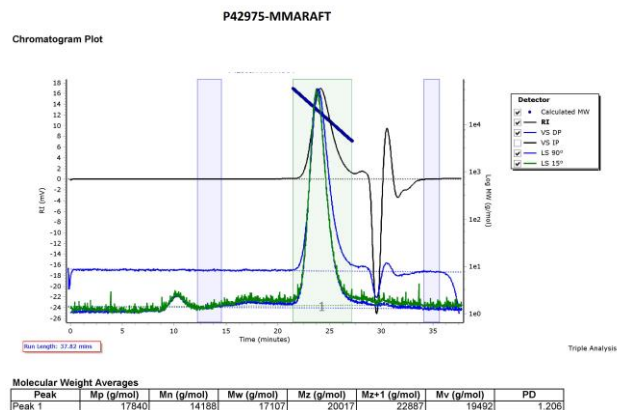
### Solubility:

Polymer is soluble in DMF. It precipitated out in methanol and hexanes.

### $^1\text{H}$ -NMR spectrum of Block Copolymer in DMF:



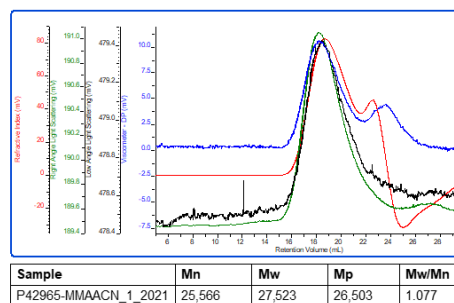
### SEC elugram of the PMMA block:



### SEC elugram of the Sample:

#### P42965A-2MMAACN

dn/dc	0.0970
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	Calibration_2020-11-25_PMMA-85K-0003.vcm



Composition was calculated from HNMR analysis.