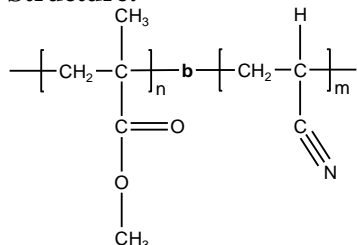


Sample Name:  
**Poly (Methylmethacrylate-b-Acrylonitrile)**

Sample #: **P42969-MMAACN**  
*PMMA block rich in Syndiotactic fraction*

**Structure:**



**Composition:**

$\text{Mn} \times 10^3$ MMA-b-ACN	Mw/Mn (PDI)
8.0-b-7.5	1.2
Color	off white

**Synthesis Procedure:**

The polymer is prepared by anionic polymerization process. First MMA followed by addition of ACN monomer.

**Characterization:**

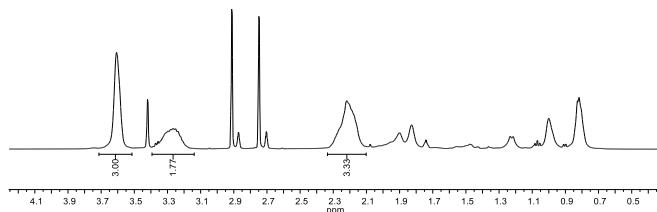
The polymer was characterized by size exclusion chromatography (SEC) in DMF and  $^1\text{H}$  NMR.

**Solubility:**

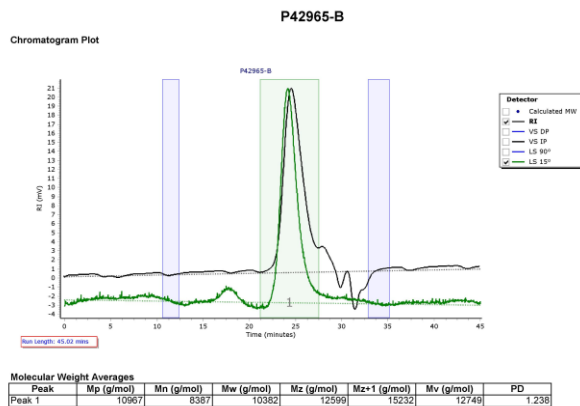
Polymer is soluble DMF and precipitated in methanol and hexanes.

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

P42969-MMA-ACN run in DMF



**SEC elugram of the PMMA-RAFT block:**



**SEC elugram of the Sample:**

**P42969-MMAACNA**

dn/dc	0.0700
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	Calibration_2020-11-25_PMMA-85K-0003.vcm

