

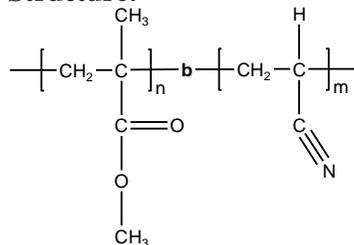
Sample Name:

Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P42965A2-MMAACN**

PMMA rich in Syndiotactic

Structure:



Composition:

$Mn \times 10^3$ 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.

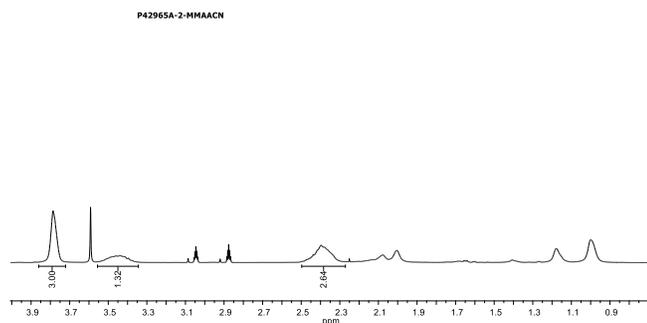
Characterization:

The polymer was characterized by size exclusion chromatography (SEC) in DMF and ¹H NMR. Composition calculated from HNMR spectroscopy.

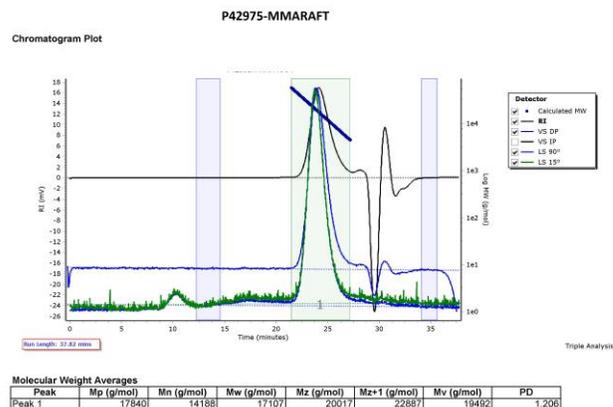
Solubility:

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

¹H-NMR spectrum of Block Copolymer in DMF:



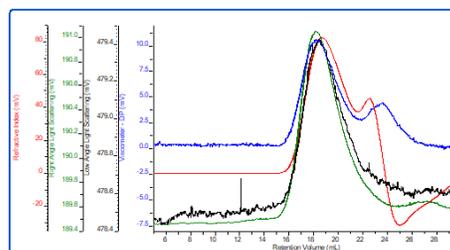
SEC elugram of the PMMA block:



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.