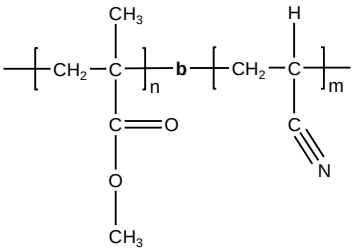
Sample Name:
Poly (Methylmethacrylate-b-Acrylonitrile)

Sample #: **P42965B-MMAACN**
PMMA block rich in Syndiotactic fraction

Structure:



Composition:

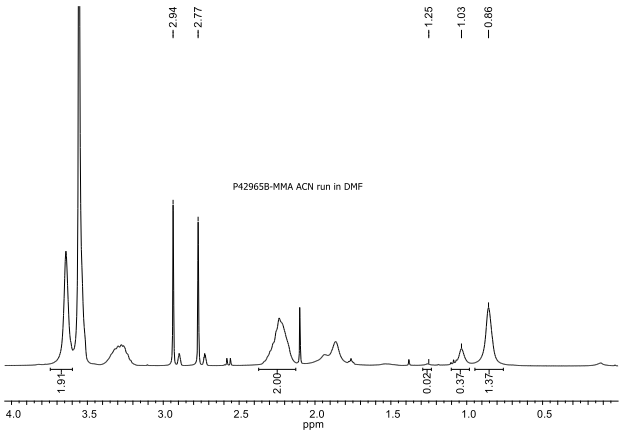
Mn × 10^3 MMA-b-ACN	Mw/Mn (PDI)
14.5-b-11.5	1.07
Color	off white

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

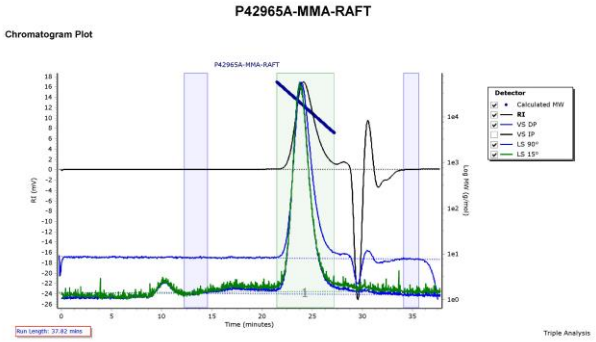
Characterization:
The polymer was characterized by size exclusion chromatography (SEC) in DMF and ^{1}H NMR.

Solubility:
Polymer is soluble DMF and precipitated in methanol and hexanes.

^{1}H-NMR spectrum of Block Copolymer in DMF:



SEC elugram of the PMMA block:



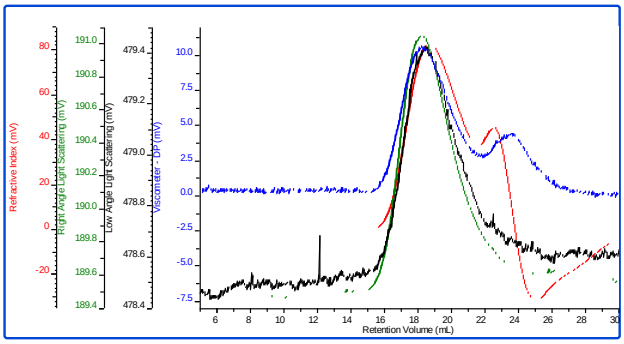
Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	17840	14188	17107	20017	22887	19492	1.206

SEC elugram of the Sample:

P42965B-MMAACN

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



Sample	Mn	Mw	Mp	Mw/Mn
P42965-MMAACN_1_2021	25,566	27,523	26,503	1.077