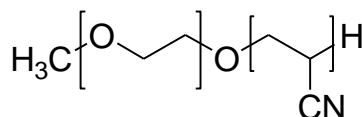


Sample Name:
Poly (ethylene oxide–b–acrylonitrile)

Sample #: P41456-EOACN

Structure:



Composition:

Mn x 10 ³ PEO-b-PACN	PDI
10.5-b-38.0	1.35

Color of the polymer:orange

Synthesis Procedure:

The polymer was prepared by anionic polymerization process.

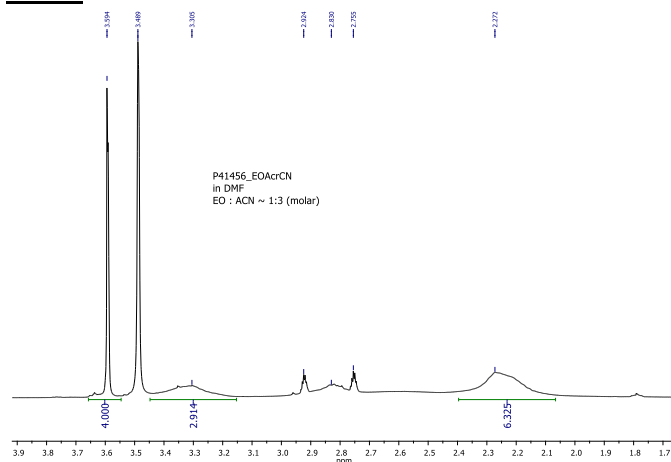
Characterization:

Molecular weight characterization was performed by size exclusion chromatography (SEC) for PEO block, and by ¹H NMR for the block copolymer.

Solubility:

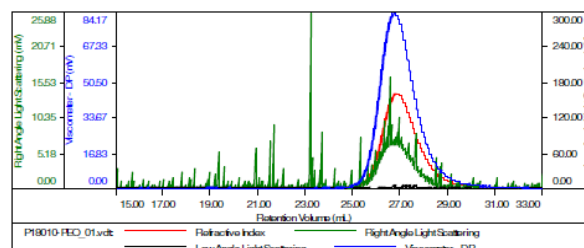
The polymer is soluble in DMF.

HNMR spectrum of block copolymer run in DMF:



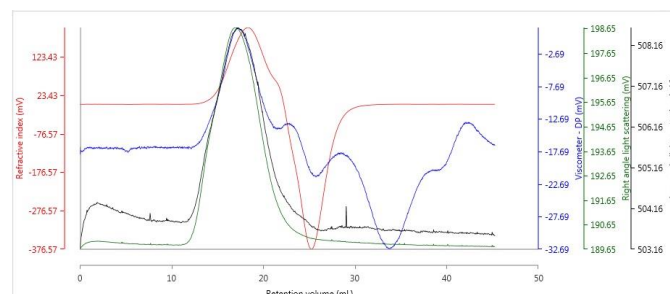
SEC profile of PEO macroinitiator (lot P19010):

Concentration (mg/mL)	2.3916
Sample dilvdc (mL/g)	0.0570
Method File	PS80K-NDV27-2014-0001.vcm
Column Set	3x PL 1113-8300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19010-PEO_01.vcl	10,695	11,809	11,801	1.082	1.3923

SEC profile of the Sample:



Results (Columns)	
P41456 Injection 1 Peak 1	
Mn (g/mol)	26,126
Mw (g/mol)	35,346
Mw/Mn	1.353
Mp (g/mol)	23,219