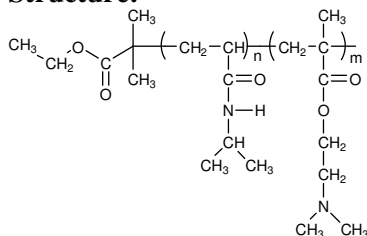


Sample Name:

Poly(N-isopropylacrylamide -b- NN-dimethylaminoethylmethacrylate)

Sample #: **P16060-NIPAMDMAEMA**

Structure:



Composition:

Mn x 10 ³ PNIPAM-b-NNDMAEMA	32.0-b-367
PDI	2.23

Dp for each block PNIPAM-b-NNDMAEMA	
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Synthesis Procedure: Poly(N-isopropylacrylamide -b- NN-dimethylaminoethylmethacrylate) was synthesized by atom transfer radical polymerization.

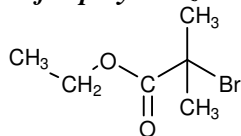
Characterization:

The molecular weight and polydispersity index (PDI) of diblock copolymer were obtained by size exclusion chromatography (SEC). The composition of the polymer was characterized by NMR.

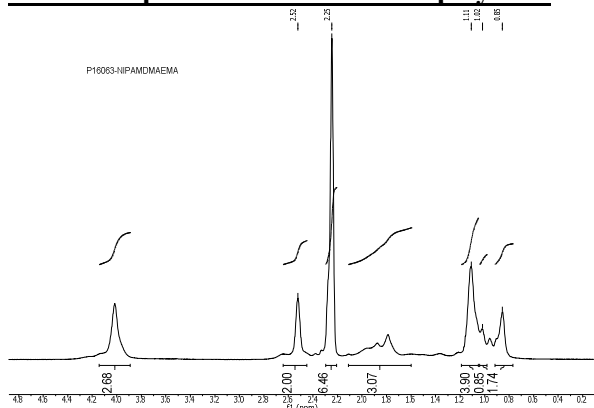
Solubility:

The polymer is soluble in THF, DMF, Acetone.

ATRP reagent used for polymerization:



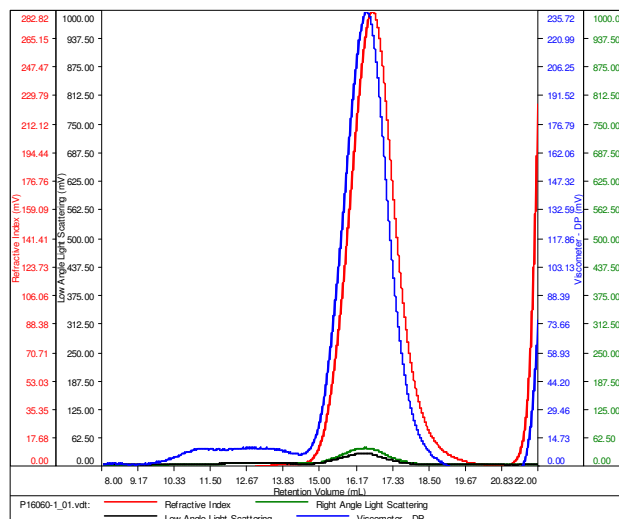
¹H NMR Spectrum of the block copolymer:



SEC elugram of the polymer:

P16060-1

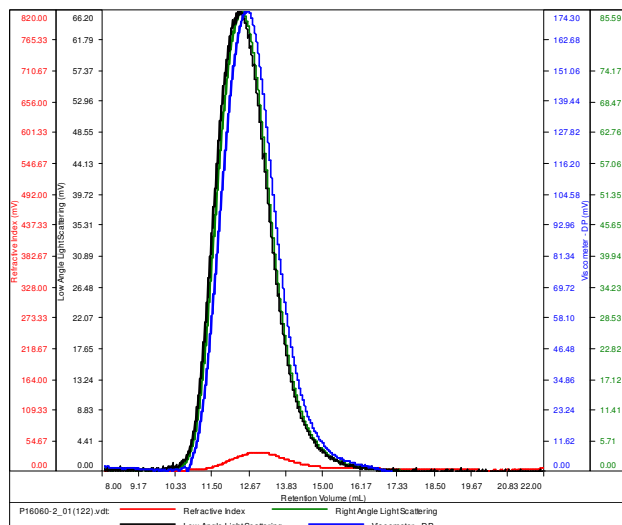
Conc (mg/mL)	24.1530
dn/dc (mL/g)	0.0770
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16060-1_01.vdt	31,823	37,357	32,577	1.174	0.1827

P16060-NIPAM-DMAEMA

Conc (mg/mL)	2.4686
dn/dc (mL/g)	0.0800
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16060-2_01(122).vdt	399,043	890,562	846,850	2.232	1.5782