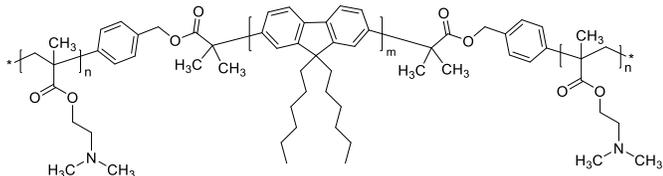


Sample Name:

Poly(*N,N*-dimethylaminoethyl methacrylate)-*block*-poly(9,9-*n*-dihexyl-2,7-fluorene)-*block*-poly(*N,N*-dimethylaminoethyl methacrylate)

Sample ID: P6184-DMAEMADHFDMAEMA

Structure:



Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
DMAEMA- <i>b</i> -DHF- <i>b</i> -DMAEMA 7.5- <i>b</i> -2.9- <i>b</i> -7.5	1.3

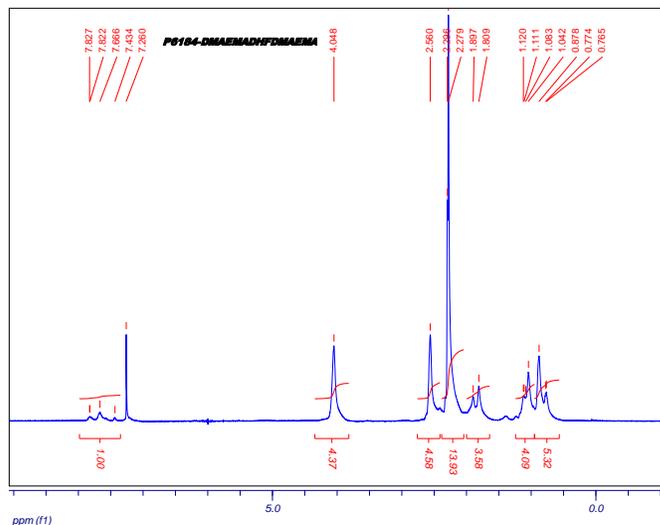
Synthetic Procedure:

The poly(*N,N*-dimethyl amino ethyl methacrylate)-*b*-poly(9,9-*n*-dihexyl-2,7-fluorene)-*b*-poly(*N,N*-dimethyl amino ethyl methacrylate) triblock copolymer was synthesized by atom transfer radical polymerization (ATRP) method.

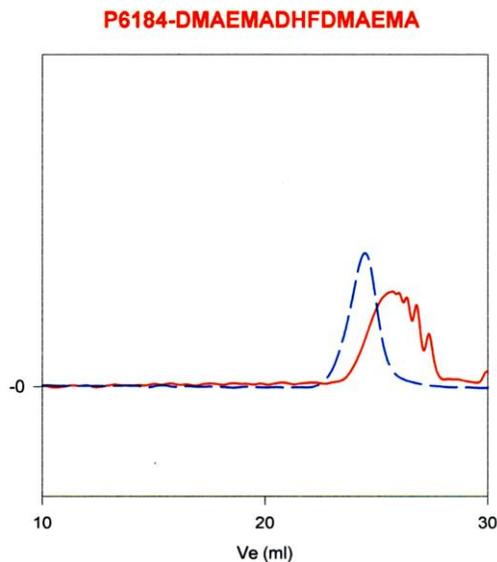
Characterization:

The molecular weight and polydispersity of the product were determined by size exclusion chromatography (SEC). Composition of the triblock copolymer was calculated from proton NMR and SEC data.

^1H NMR spectrum:



SEC chromatograms:



Size exclusion chromatography of triblock copolymer:
— Poly(9,9-di-n-hexyl-2,7-fluorene) center block: $M_n=2900$, $M_w=4700$, $M_w/M_n=1.62$
— Triblock Copolymer
DMAEMA(7500)-*b*-DHF(2900)-*b*-DMAEMA(7500), $M_w/M_n=1.30$