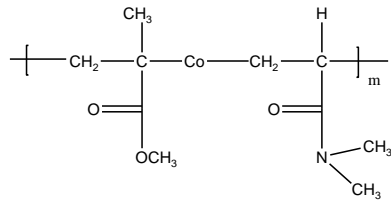Sample Name:
Poly(Methylmethacrylate –co-N,N-dimethyacrylamide)

Sample #: P9120C-MMADMAran

Structure:

Composition:

Mn x 10³ PMMA-co-DMA	PDI
175.0	1.7
MMA	40.0%

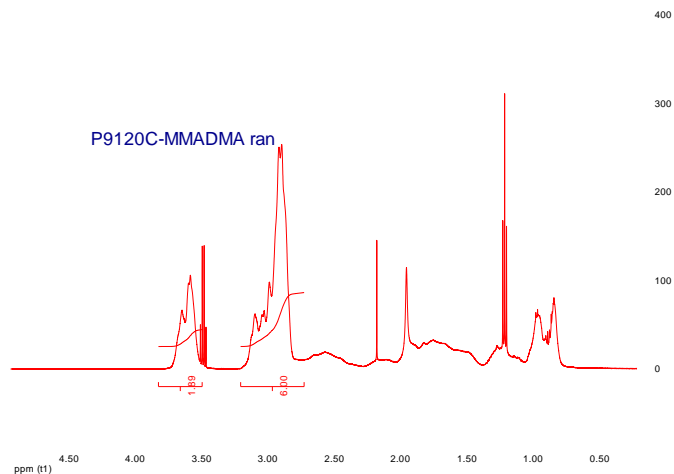**Synthesis Procedure:**
BY GTP process

Characterization:
Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI)
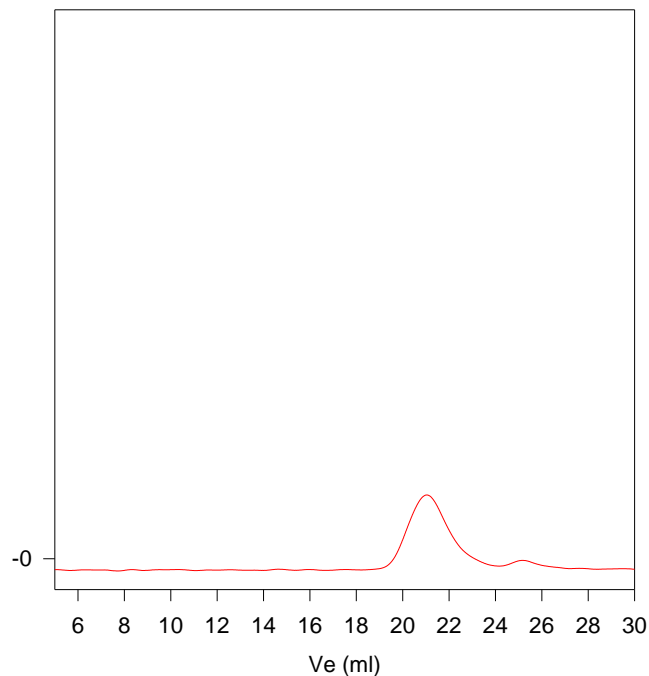
Solubility:
The polymer is soluble in THF and in Chloroform and precipitate out from hexane, ether.

^{1}H-NMR Spectrum of the block copolymer:

P9120C-MMADMA ran

SEC of the Polymer:

P9120C-MMADMAran

Size exclusion chromatograph of poly(MMA-co-DMA):

M_w=175,000, M_n=298,000, M_w/M_n=1.7
Composition by HNMR: PMMA: 40 mole%)