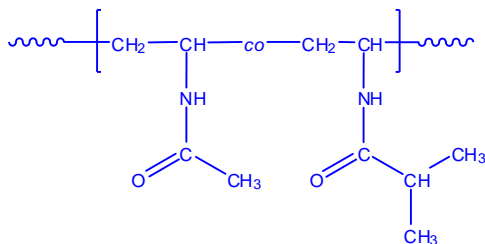


Sample Name:
Random Copolymer of N-vinyl isobutyramide and N-vinyl acetamide

Sample #P6370-NVANVIBA

Structure:

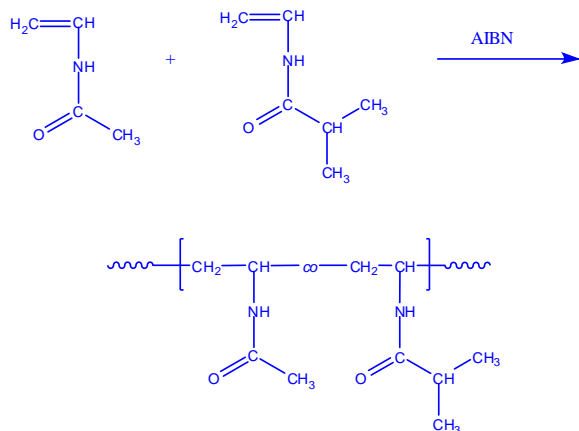


Composition:

Mn x 10 ³	PDI	NVIBA (wt%)
19.4	3.16	50%

Synthesis Procedure:

Polymer is obtained by free radical polymerization using AIBN as free radical initiator.



Characterization:

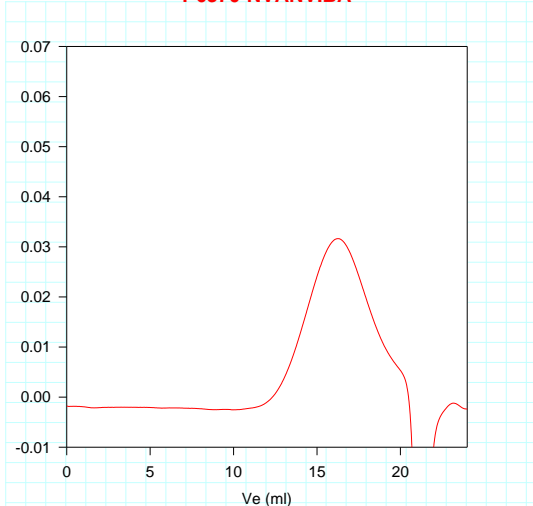
The molecular weight and polydispersity index (PDI) of polymer is obtained by size exclusion chromatography in water with 0.1M NaCl and 0.15 wt% of trifluoroacetic acid. The columns were calibrated with poly(ethylene glycol) standards.

Solubility:

Polymer is soluble in water, and precipitated out from hexane, and ether.

SEC of copolymer:

P6370-NVANVIBA



Size exclusion chromatography of poly(N-vinyl acetamide-co-N-vinyl isobutyramide)
 (with respect to poly(ethylene glycol) standards; Eluent: water with 0.1M NaCl)

M_n=19400; M_w=61300; M_w/M_n= 3.16

Proton NMR of copolymer:

