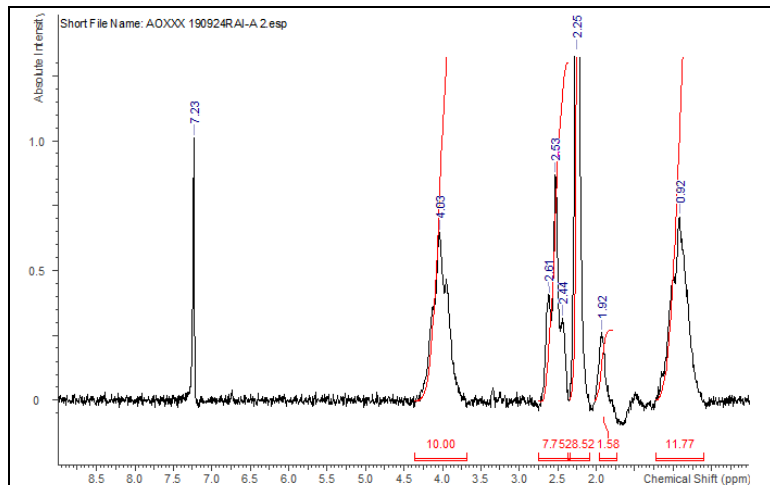


No. AO063

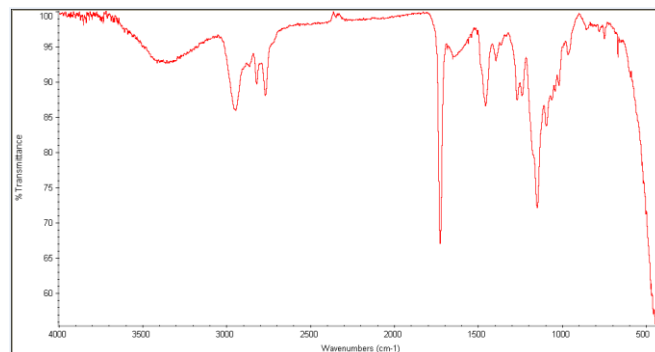
Certificate of Analysis



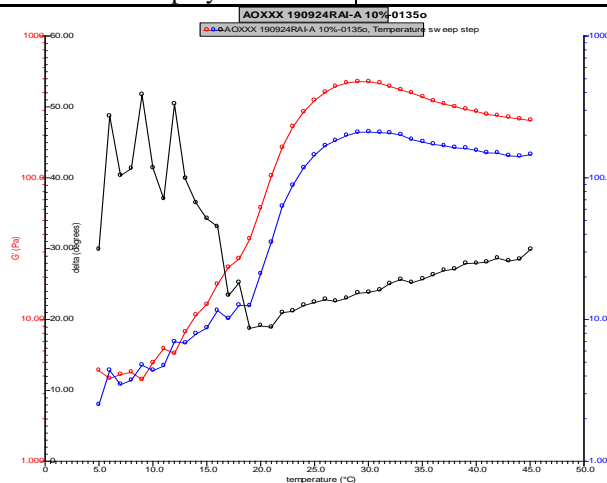
Product Name: Poly(dimethylaminoethyl methacrylate-co-butyl methacrylate) copolymer (85:15) (Lot#: 190924RAI-A)



H-NMR Spectrum of copolymers in CDCl₃ (NMReady 60e, Nanalysys) NMR of PDMAEMA-co-BMA copolymer.



FTIR Analysis: Collected from cast-film on KBr salt-plate placed in Nicolet Avatar 320 spectrometer and analyzed in transmission mode.



Rheology performed on AR2000 (TA instruments) with 60mm 2degree cone on 10% w/v polymer in water dissolved over 3 days with stirring at 4°C. Viscosity of solution at 0.1 (sec⁻¹) and 5°C was measured (1minute peak hold 5 second test intervals). Rheology performed by oscillating at constant 6.283 rad/s, 0.1% strain, in increments of 1°C ranging from 5-45°C with 1 minutes of temperature equilibration at each point.

Viscosity 10% w/v solution at 5°C **10.71 Pa/s**

Inherent Viscosity: 1.148 ± 0.004 dL/g (calculated from dynamic viscosity at 2% w/v in DCM on Rheosense microVISC, n=3 at 25°C).

Structure of P(dmaema-BMA) copolymers

