

Supporting information

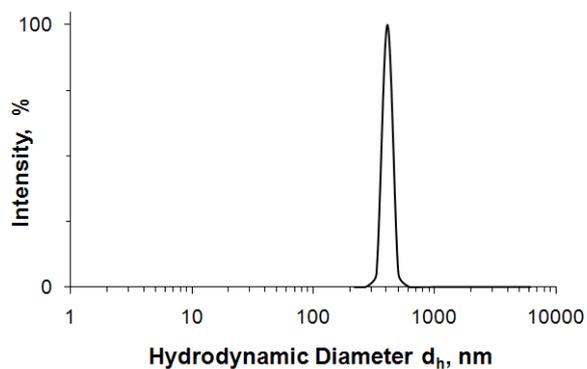


Figure 14 Size distribution measured by light scattering of pristine clay

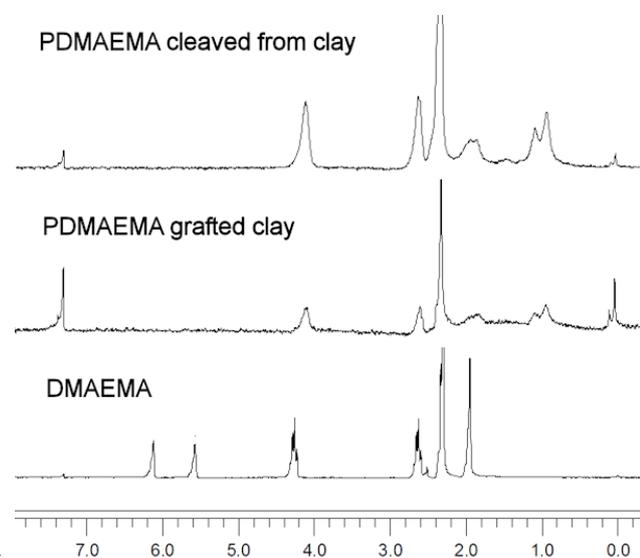


Figure 15 Nmr spectra of the monomer DMAEMA (bottom), PDMAEMA grafted on clay (middle) and PDMAEMA detached from the clay surface (top)

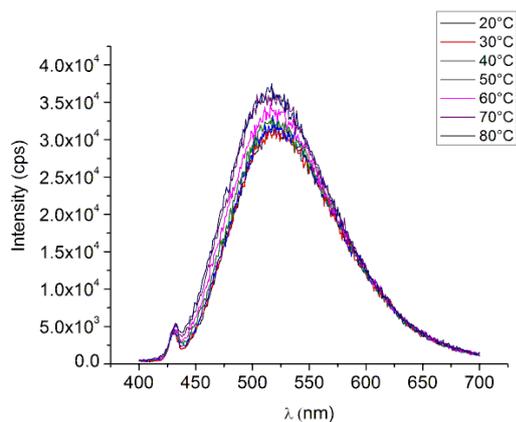


Figure 16 Emission of 1,8-ANS in buffer pH 8 at 20-80°C

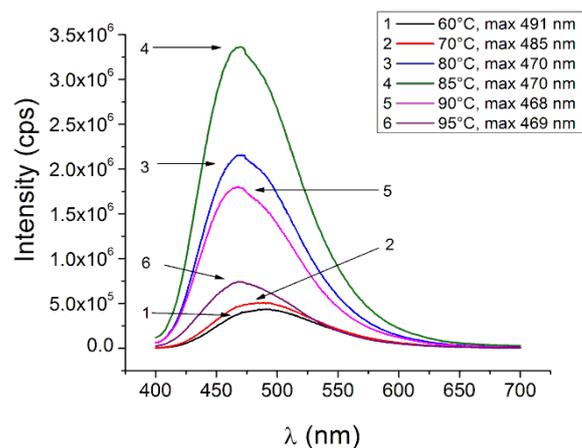


Figure 17 Emission intensities of 1,8-ANS in PDMAEMA (282 000 g/mol) solutions at pH 7.8 and 60-95°C

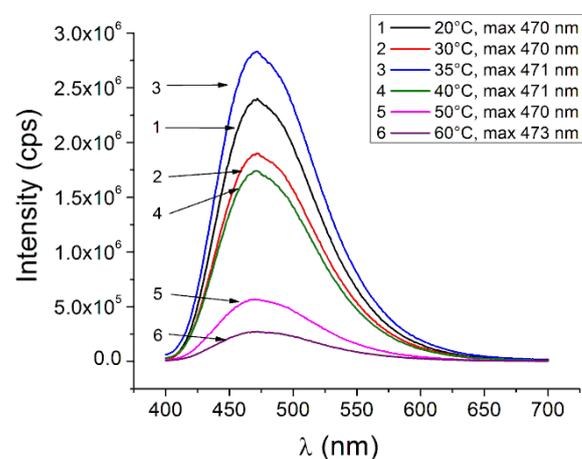


Figure 18 Emission intensities of 1,8-ANS in PDMAEMA (282 000 g/mol) solutions at pH 9.3 and 20-60°C

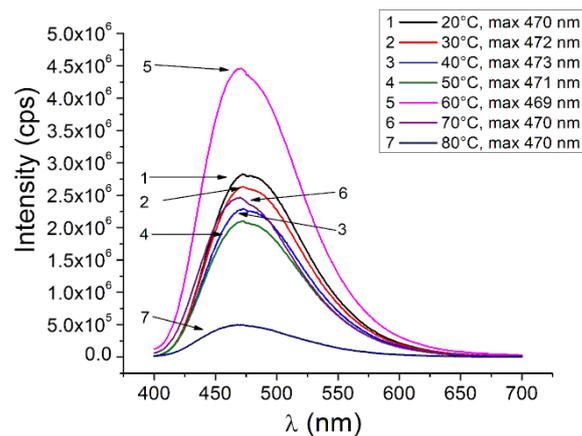


Figure 19 Emission intensities of 1,8-ANS in PDMAEMA (282 000 g/mol) solutions at pH 8.3 and 20-80°C

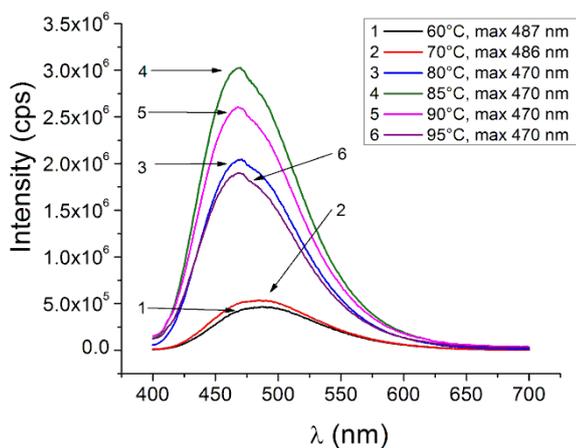


Figure 20 Emission intensities of 1,8-ANS in PDMAEMA (232 000 g/mol, 6 % clay) grafted clay dispersions at pH 7.8 and 60-95°C

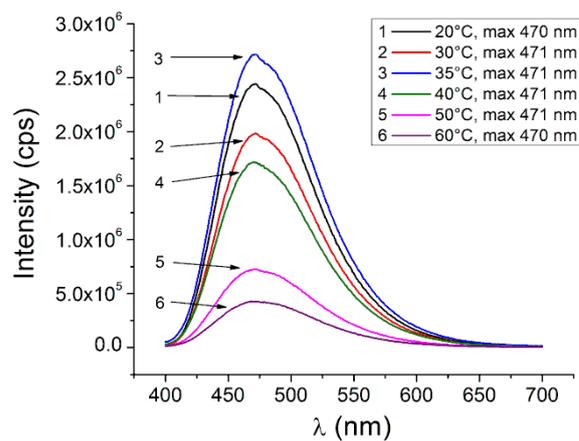


Figure 22 Emission intensities of 1,8-ANS in PDMAEMA (232 000 g/mol, 6 % clay) grafted clay dispersions at pH 9.3 and 20-60°C

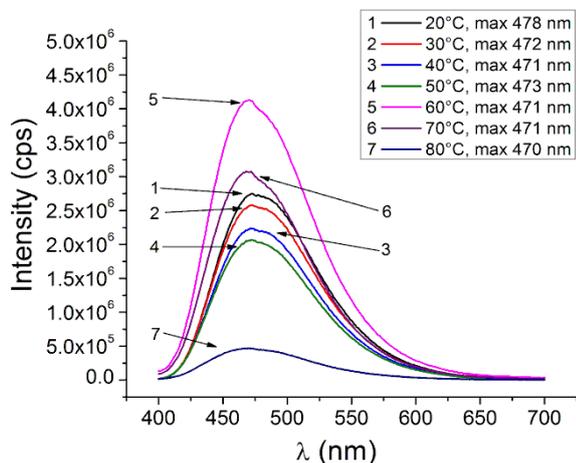


Figure 21 Emission intensities of 1,8-ANS in PDMAEMA (232 000 g/mol, 6 % clay) grafted clay dispersions at pH 8.3 and 20-80°C

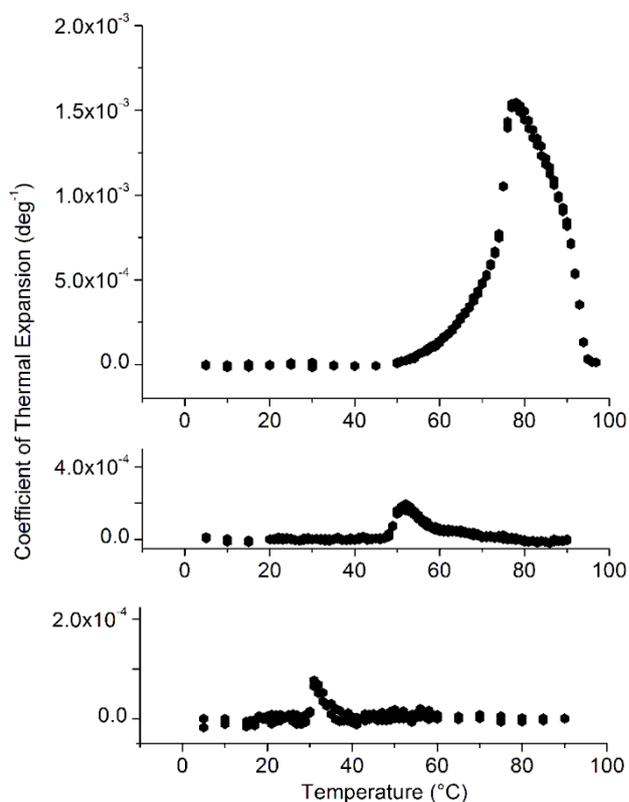


Figure 23 Coefficient for thermal expansion as function of temperature for free PDMAEMA (282 000 g/mol) at pH 7.8 (top), 8.3 (middle) and 9.3 (bottom)

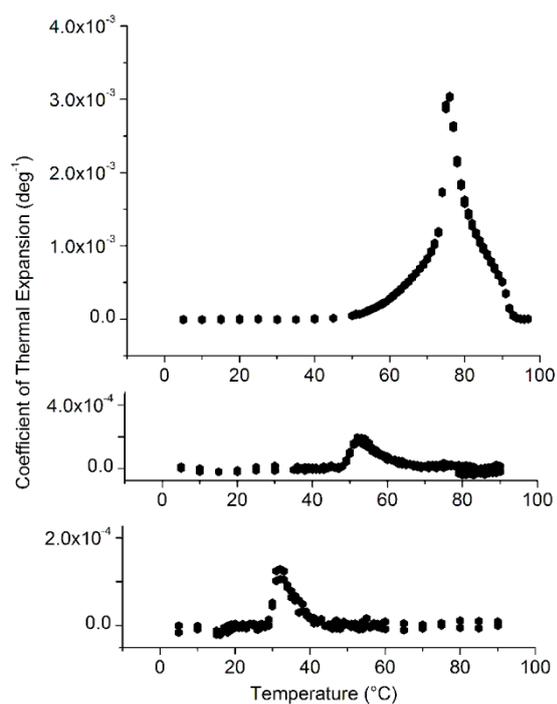


Figure 24 Coefficient for thermal expansion as function of temperature for PDMAEMA (232 000 g/mol, 6 % clay) grafted clay at pH 7.8 (top), 8.3 (middle) and 9.3 (bottom)

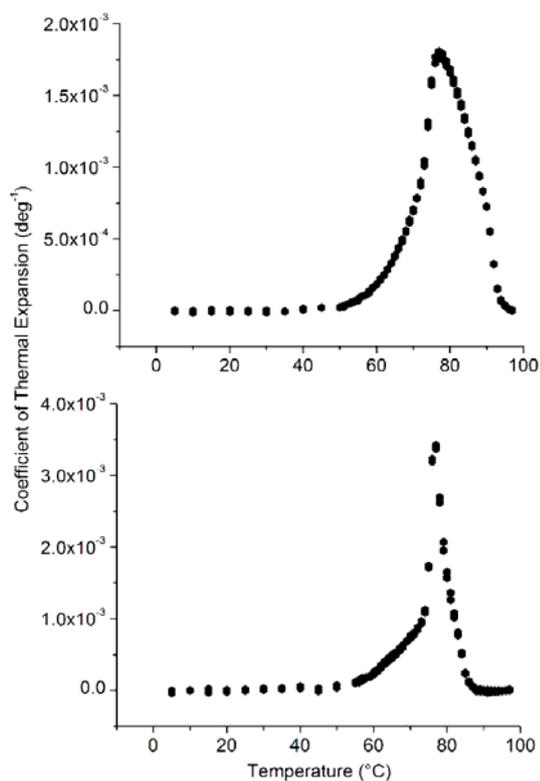


Figure 25 Coefficient of thermal expansion as function of temperature free PDMAEMA (51 000 g/mol, pH 7.7, top) and for a dispersion of PDMAEMA grafted clay (bottom, 51 000 g/mol, 44 % clay, pH 7.3)