Rheology of viscoelastic polymers [psl7]

Newtonian Fluid   Viscoelastic Fluid

(a)
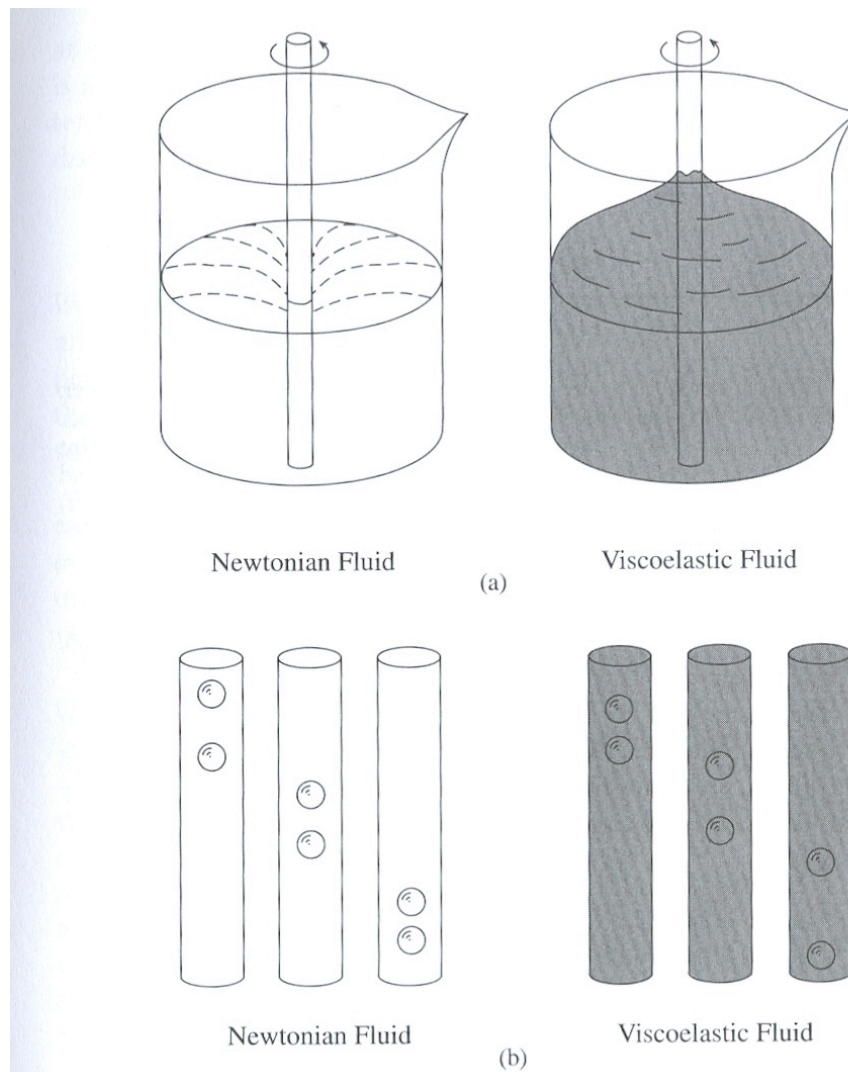
Newtonian Fluid   Viscoelastic Fluid

(b)

Figure 2.11 Illustrating the viscoelasticity of polymers. (a) A polymer melt or solution will climb up a rotating rod, whereas in an ordinary viscous liquid the liquid is 'sucked in' near the rod. (b) Spheres falling through a Newtonian fluid will tend to get closer, whereas in a viscoelastic fluid they separate as they drop

[copied from Hamley 2007]