

ASSIGNMENT #16

14.2 Compute repeat unit molecular weights for the following:

- (a) poly(vinyl chloride)
- (b) poly(ethylene terephthalate)
- (c) polycarbonate
- (d) polydimethylsiloxane

14.5 The following table lists molecular weight data for a polypropylene material. Compute the following:

- (a) the number-average molecular weight
- (b) the weight-average molecular weight
- (c) the degree of polymerization.

<i>Molecular Weight Range (g/mol)</i>	<i>x_i</i>	<i>w_i</i>
8,000–16,000	0.05	0.02
16,000–24,000	0.16	0.10
24,000–32,000	0.24	0.20
32,000–40,000	0.28	0.30
40,000–48,000	0.20	0.27
48,000–56,000	0.07	0.11