

$$m = 2(A_{\text{C}}) + 4(A_{\text{F}})$$

$$= (2)(12.01 \text{ g/mol}) + (4)(19.00 \text{ g/mol}) = 100.02 \text{ g/mol}$$

And

$$DP = \frac{\overline{M}_n}{m} = \frac{49,800 \text{ g/mol}}{100.02 \text{ g/mol}} = 498$$