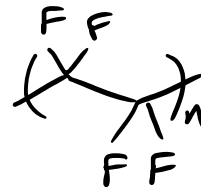


FYI = Monday Oct 21, 2024. mid-term

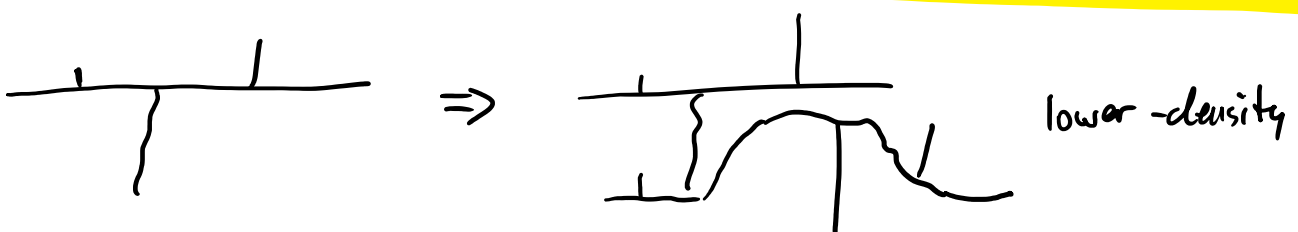
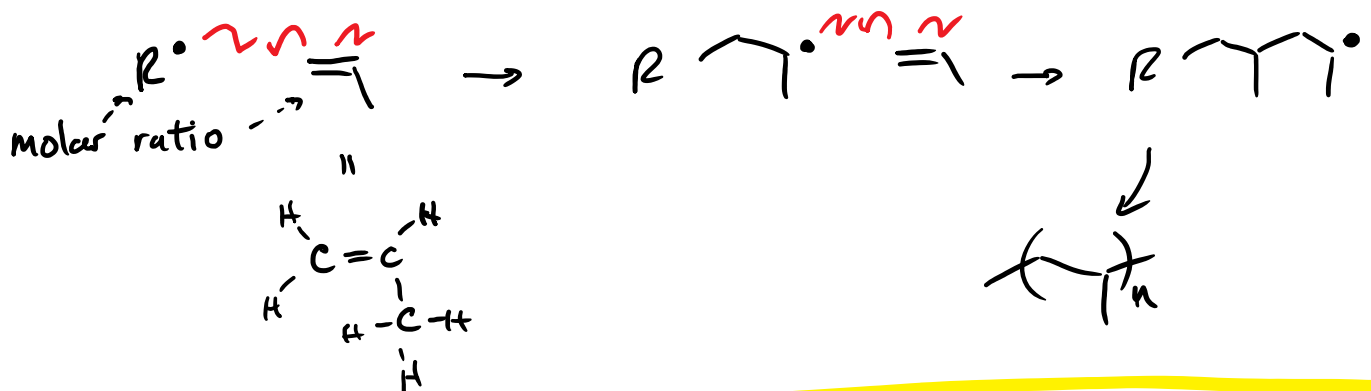
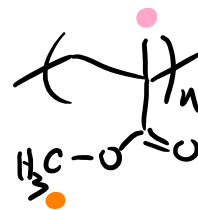
## Introducing Polymers

#4 poly tetra fluoro ethylene  
= Teflon



always linear

#5 poly methyl methacrylate



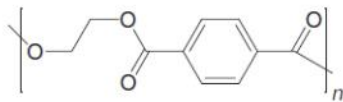
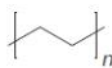
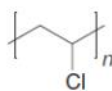
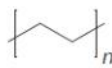
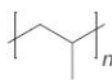
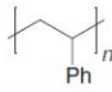

مس. ۹۵۰ منقوش

cross-coupling

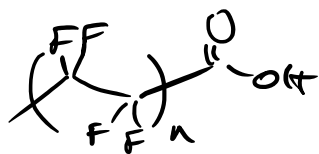


"higher density"

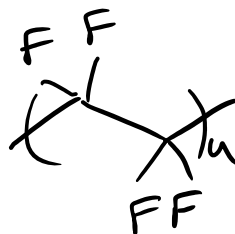
**Table 30.1** Recyclable Polymers

Recycling code	Polymer name	Structure	Recycled product
1	PET Polyethylene terephthalate		fleece jackets carpeting plastic bottles
2	HDPE High-density polyethylene	 #1	Tyvek insulation sports clothing
3	PVC Poly(vinyl chloride)	 #3	floor mats
4	LDPE Low-density polyethylene	 #1	trash bags
5	PP Polypropylene	 #2	furniture
6	PS Polystyrene	 #6 = 	molded trays trash cans

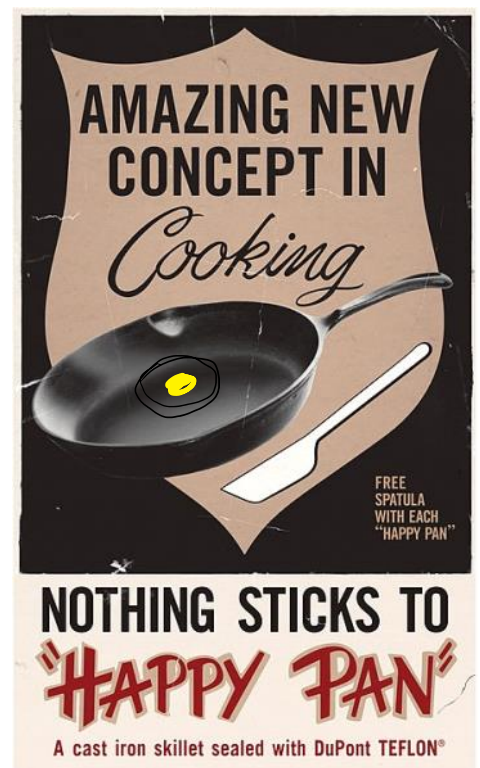
Non-recycling - founded in 1930-1960s



environmental  
"impact"



to waste  
in the environment



egg

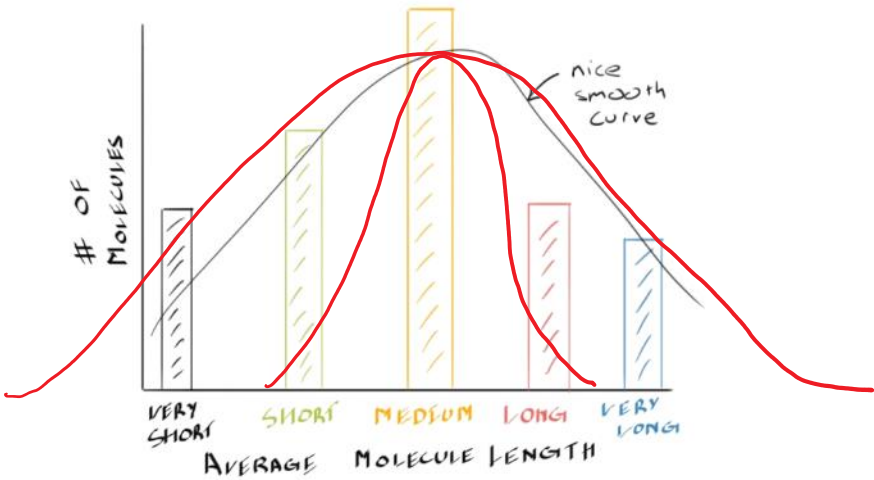


Figure 13. The molecular weight distribution for the hypothetical polymer sample in Figure 12. Our grouping into only five length groupings is very coarse and the actual distribution would be smooth, as shown by the nice smooth curve.

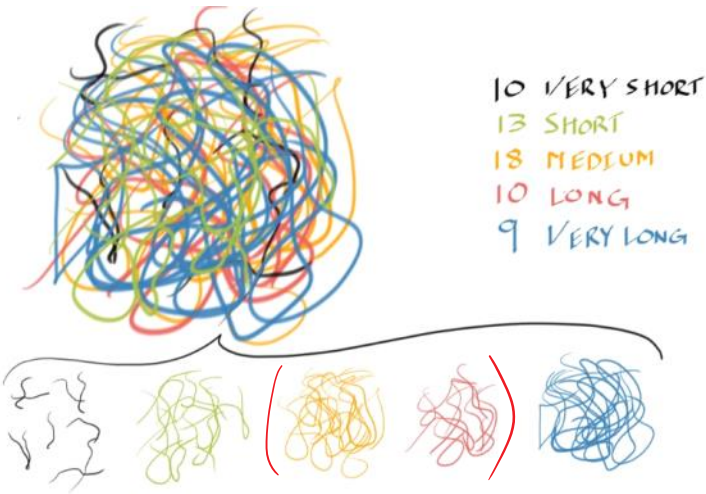


Figure 12. A hypothetical polymer sample consisting of some "very short" molecules, some "short" molecules, some "medium" molecules, some "long" molecules, and some "very long" molecules.