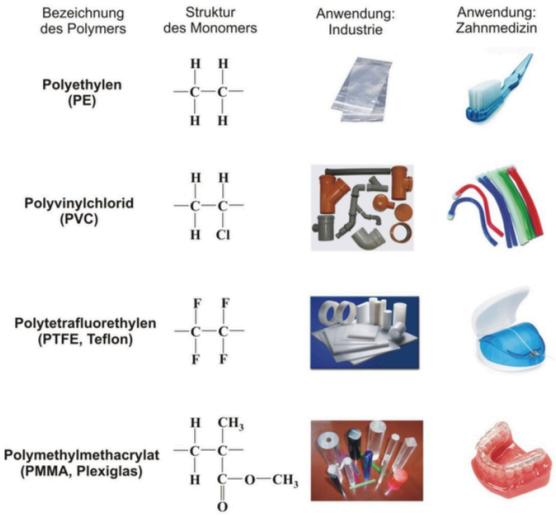
Physikalische Grundlagen der zahnärztlichen Materialkunde

6te Vorlesung
Polymere
18 Oktober 2018
Gergely Agócs

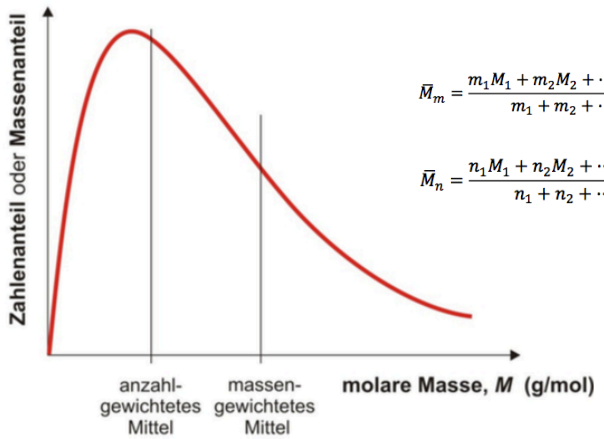
Lehrbuch:
12. Kapitel

Hausaufgaben:
Berechnung in der Vorlesung

Polymere



Polymere



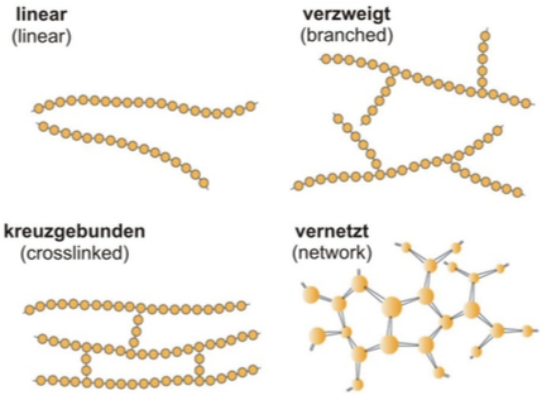
$$\text{Polymerisationsgrad} = \frac{\bar{M}_n}{M_{\text{Monomer}}}$$

$$\bar{M}_m = \frac{m_1M_1 + m_2M_2 + \cdots + m_iM_i + \cdots + m_kM_k}{m_1 + m_2 + \cdots + m_i + \cdots + m_k} = \frac{\sum_{i=1}^{k} m_iM_i}{\sum_{i=1}^{k} m_i}$$

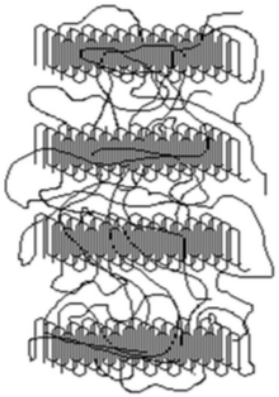
$$\bar{M}_n = \frac{n_1M_1 + n_2M_2 + \cdots + n_iM_i + \cdots + n_kM_k}{n_1 + n_2 + \cdots + n_i + \cdots + n_k} = \frac{\sum_{i=1}^{k} n_iM_i}{\sum_{i=1}^{k} n_i}$$

$$\text{Polydispersitätsindex} = \frac{\bar{M}_m}{\bar{M}_n}$$

Polymere



Polymere



$$\text{Kristallisationsgrad} = \frac{m_k}{m} \; (\cdot\, 100\%)$$

Polymere