


Degree of polymerization calculation pdf

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Degree of polymerization calculation pdf

How to determine the degree of polymerization. What is the degree of polymerisation.

Go to navigation Go to research the degree of polymerisation, or DP, or \bar{X}_n number of repeated units in a polymer string \bar{X}_n time t in a polymerisation reaction [1]. The length is in monomer units. The degree of polymerisation \bar{X}_n a measure of molecular weight. For most industrial purposes, the lengths of thousands or tens of thousands are desired. For a homopolymer, the degree of polymerisation can be calculated as shown below $DP = \text{total MW of the polymer} / \text{MW from the repeating unit}$ $n = x \cdot n \cdot m \cdot m \cdot m \cdot m \cdot n = x \cdot \text{spelled } (n) \cdot m \cdot (n) \cdot m \cdot (n) \cdot m \cdot (n) \cdot m \cdot \text{poly } n$ in polycondensation, in order to achieve a high molecular weight, therefore, polymerisation a high fractional monomer conversion, p , \bar{X}_n It would be necessary, as per equations of dealing the cards: $x_n = 1 / (1 - p)$. A mono-mother conversion \bar{X}_n rich in $P = 99\%$ would be needed to reach $x_n = 100$. Correction with polymers of musical properties with identical compositions, but different total molecular weights may exhibit different physical properties. In general, the increase in the degree of polymerisation correlates with higher melting temperature [2] and greater mechanical resistance. See also \bar{X}_n Reference to the "Golden Book Link" Flory, P.J. and Vrij, A.J. AM. Chem! SOC; 1963; 85 (22) PP3548-3553 RA: 152A. "Female" 152.152s; 152s; 152s; 152s; 152s; 152s; 152s; 152s; and 152When using our services, you agree to our use of cookies. One of the main parameters determining the properties of a polymer \bar{X}_n the degree of polymerisation that is directly related to molecular weight. The degree of polymerisation (DP), or number of repeated units, can be determined by comparing in 1D Spectra, the integral group and the integral unit of interest of the repeated chain, Using this equation: the molecular weight of The polymer can then be easily determined by multiplying the DP with the molecular weight of the repeated unit. Normally, the weight of the final group not \bar{X}_n taken into consideration for the since it is \bar{X}_n insignificant in compared to the total molecular weight of the polymer chains. The first graphic shows a 1H spectrum measured in the Spinsolve 80 MHz system of a polyethylene glycol spectrum with methoxy termination (PEG). This polymer, also known as polyethylene oxide, is commercially available and finds applications in the pharmaceutical, \bar{X}_n , \bar{X}_n , and food sectors. The strong signal at 3.7 ppm originates in the CH2 groups, while the signal at 3.4 ppm originates from the terminal methoxy group. The two signals can be integrated and the degree of polymerization as well as molecular weight can be obtained using the above-described factors. Figure 1: Polyethylene Glycol (PEG) 1D 1D Spectra with a methoxy group acquired in a Spinsolve 80 MHz system. The second example displays a poly ϵ -caprolactone (Fig. 2) polymer, which is \bar{X}_n functionalized with a Tosyl terminal group at both ends. Functional groups are introduced specifically for the determination of molecular weight or for the dedicated sane of cuplAmers and/or functionalization panels. In the present case, the Tosyl function can serve all these props. As the \bar{X}_n finished at both ends with the Tosylg group, the number of centimeters that needs to be considered $\bar{X}_n 2A = 8$, so that the mn of the polymer can be calculated as follows. Figure 2: 1D 1H spectra of poly(ϵ -caprolactone) end functionalized with a tosiolo group at each end of the chain (SD calculated of 36, molecular weight of 4100 g/mol)Acquired in a Spinsolve 60 MHz. R1 is dependent on the bifunctional initiator used for polymerization. Visit the Applications page on www.magritek.com for more examples on how bench nmr can be used in different fields of application. What \bar{X}_n the degree of polymerization? Give its meaning. A homo polymer has mol.wt. = 56,000. Its mol.wt monAmr $\bar{X}_n = 28$. Calculate your degree of polymerization. Updated on April 27, For Oxana Fox A degree of polymerisation \bar{X}_n a key characteristic of the substances that determine of polymer materials. The polymers are big gravity \bar{X}_n the plates consisting of repeating structural units (monomers). For example, polyethylene \bar{X}_n composed of repeating units (CH2-CH2)n, in which the apron apron apron apron apron ("a priori"), an \bar{X}_n an entire number indicating the degree of polymerisation. Mathematically, this meter \bar{X}_n a proportion of the molecular weights of the polymer and its monomer unit \bar{X}_n rich. Write the chemical formula of the polymer, for example, if the polymer is \bar{X}_n tetrafluoroethylene, then your brother \bar{X}_n - (CF2-CF2)n The single mother unit \bar{X}_n rich in \bar{X}_n placed between partners. Obtain atomic masses of the elements that compose the gravity \bar{X}_n single-parent unit cula \bar{X}_n rich, using the periodic table of elements. For tetrafluoroethylene, the atomic carbon masses (C) and fluorine (F) are 12 and 19 respectively. Calculate the molecular weight of the monomer unit \bar{X}_n rich by multiplying the atomic mass of each element by the number of atoms in each monmer, then adding the products. For tetrafluoroethylene, the molecular weight of the monomer unit \bar{X}_n rich in $\bar{X}_n 12 \times 2 + 19 \times 4 = 100$. Split the molecular weight of the polymer by molecular weight of the monomer unit \bar{X}_n rich to calculate the degree of polymerisation. If the molecular mass of tetrafluoroethylene is 120000, its degree of polymerisation $\bar{X}_n 120000 / 100 = 1200$. 1200

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