

Average molecular weights

Equations for number average and weight average molecular weights as well as polydispersity index are defined as follows:

$$\bar{M}_n = \frac{\sum n_i M_i}{\sum n_i} = \frac{\sum w_i}{\sum n_i}$$
$$\bar{M}_w = \frac{\sum w_i M_i}{\sum w_i} = \frac{\sum n_i M_i^2}{\sum n_i M_i}$$
$$PD = \frac{\bar{M}_w}{\bar{M}_n}$$

where

M_i

molecular weight of molecules i

n_i

number of molecules with molecular weight i

w_i

mass of the molecules with molecular weight i

Number Average Molecular Weights

Leslie H. Sperling



Number Average Molecular Weights:

Number Average Molecular Weights Robert U. Bonnar, Martin Dimbat, Fred H. Stross, 2013-08 Polymers J.M.G. Cowie, 1991-06-01 This text follows a broad sequence of preparation characterization physical and mechanical properties and structure property relations Polymers Chemistry and Physics of Modern Materials Second Edition covers several methods of polymerization properties and advanced applications such as liquid crystals and polymers used in the electronics industry Topics also include Step Growth Free Radical Addition and Ionic Polymerization Copolymerization Polymer Stereochemistry and Characterization Structure Property Relationship Polymer Liquid Crystals and Polymers for the Electronics Industry

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