

Avrami equation

An equation, describing crystallization kinetics, of the form:

$$1 - \varphi_c = \exp(-Kt^n)$$

where φ_c is the crystalline volume fraction developed at time t and constant temperature, and K and n are suitable parameters. K is temperature dependent.

According to the original theory, n should be an integer from 1 to 4, the value of which should depend only on the type of the statistical model; however, it has become customary to regard it as an adjustable parameter that may be non-integral.

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