polyaddition

A *polymerization* in which the growth of polymer *chains* proceeds by addition reactions between molecules of all *degrees of polymerization*.

Notes:

1. The growth steps are expressed by:

$$P_x + P_y \rightarrow P_{x+y} \{x\} \in \{1, 2, \ldots \infty\};$$
$$\{y\} \in \{1, 2, \ldots \infty)$$

where P_x and P_y denote chains of degrees of polymerization x and y, respectively.

2. The earlier term 'addition polymerization' embraced both the current concepts of 'polyaddition' and 'chain polymerization', but did not include 'condensative chain polymerization'.

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