

comb macromolecule

Also contains definitions of: brush macromolecule, regular comb macromolecule

A macromolecule comprising a main chain with multiple trifunctional branch points from each of which a linear side-chain emanates.

Notes:

1. If the subchains between the branch points of the main chain and the terminal subchains of the main chain are identical with respect to constitution and degree of polymerization, and the side chains are identical with respect to constitution and degree of polymerization the macromolecule is termed a regular comb macromolecule.
2. If at least some of the branch points are of functionality greater than three, the macromolecule may be termed a brush macromolecule.

Source:

PAC, 1996, 68, 2287 (*Glossary of basic terms in polymer science (IUPAC Recommendations 1996)*) on page 2296