

perfect network

Also contains definition of: perfect polymer network

Polymer network composed of chains all of which are connected at both of their ends to different junction points.

Note:

If a perfect network is in the rubbery state then, on macroscopic deformation of the network, all of its chains are elastically active and display rubber elasticity.

Source:

PAC, 2007, 79, 1801 (*Definitions of terms relating to the structure and processing of sols, gels, networks, and inorganic-organic hybrid materials (IUPAC Recommendations 2007)*) on page 1815