

redox polymer
electron-exchange polymer
oxidation-reduction polymer

Polymer containing groups that can be reversibly reduced or oxidized.

Note 1: Reversible redox reaction can take place in a polymer main-chain, as in the case of polyaniline and quinone/hydroquinone polymers, or on side-groups, as in the case of a polymer carrying ferrocene side-groups. Note 2: Use of the term “redox resin” is strongly discouraged.

N.B. This supersedes an earlier definition.

2004, 76, 897