

redox polymer

Also contains definitions of: electron-exchange polymer, oxidation-reduction polymer

Polymer containing groups that can be reversibly reduced or oxidized.

Notes:

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.
2. Use of the term 'redox resin' is strongly discouraged.

Source:

PAC, 2004, 76, 889 (*Definitions of terms relating to reactions of polymers and to functional polymeric materials (IUPAC Recommendations 2003)*) on page 897