

reactive blending

Mixing process that is accompanied by the chemical reaction(s) of components of a polymer mixture.

Notes:

1. Examples of reactive blending are: (a) blending accompanied by the formation of a polymer-polymer complex, (b) the formation of block or graft copolymers by a combination of radicals formed by the mechano-chemical scission of polymers during blending.
2. Reactive blending may also be carried out as reactive extrusion or reaction injection molding (RIM).

Source:

PAC, 2004, 76, 889 (*Definitions of terms relating to reactions of polymers and to functional polymeric materials (IUPAC Recommendations 2003)*) on page 894