

## **polymer–polymer complex**

Complex, at least two components of which are different polymers.

Notes:

1. A complex is a molecular entity formed from two or more components that can be ionic or uncharged.
2. Although the intrinsic binding energy between the individual interacting sites giving rise to the complex is weaker than a covalent bond, the total binding energy for any single molecule may exceed the energy of a single covalent bond.
3. The properties of a complex defined here differ from those given elsewhere because, owing to the repeating nature of a polymer molecule, many interacting sites may be present, which together will provide stronger bonding than a single covalent bond.

### **Source:**

PAC, 2004, 76, 1985 (*Definition of terms related to polymer blends, composites, and multiphase polymeric materials (IUPAC Recommendations 2004)*) on page 1988