

## solid polymer electrolyte

Electrically conducting solution of a salt in a polymer.

Notes:

1. An example of a solid polymer electrolyte is a solution of a lithium salt in a poly(oxyethylene) matrix; the ionic conductivity of such material is due to the mobility of lithium cations and their counterions in an electric field.
2. Although the adjective 'solid' is used, the material may be a liquid.
3. The term solid polymer electrolyte should not be confused with the term polymeric electrolyte.
4. **See also:** conducting polymer composite.

### **Source:**

PAC, 2006, 78, 2067 (*Terminology of polymers containing ionizable or ionic groups and of polymers containing ions (IUPAC Recommendations 2006)*) on page 2073