

photosensitive polymer

Polymer that responds to ultraviolet or visible light by exhibiting a change in its physical properties or its chemical constitution.

Notes:

1. Examples of the changes in photosensitive polymers are a change in molecular shape (photo-responsive polymer), a change in its constitution (photo-reactive polymer), and a reversible change in color (photochromic polymer).
2. Photosensitivity in photosensitive polymers means that the polymers are sensitive to the irradiated light leading to some change in properties or structure. It is different from photosensitization.
3. *See also*: photoreaction, photochromism.

Source:

PAC, 2004, 76, 889 (*Definitions of terms relating to reactions of polymers and to functional polymeric materials (IUPAC Recommendations 2003)*) on page 901