

UNIQUE GLO

P.O. Box 404, Manteno, IL 60950 – (815) 545-7650

Contacts: Ed Brooks: ebrooks2000@hotmail.com or Bill Allman: r.allman@att.net



Processing Guidelines for Plastic Applications using photoluminescent pigments

1. Photoluminescent pigment is broadly used in plastic molding applications. It can be processed into various plastic products. For most thermoplastics available in market, it is applicable. In order to cause no influence on the effect of photoluminescent pigment, the best choice is to use colorless and transparent resins.
2. Photoluminescent pigments can be well dispersed in PS, PP, PE, ABS, PVC, PMMA and other resins.
3. If the end product needs color mixing, try best to use the fluorescence pigment / glow combination PLM Series.
4. The proportion of luminescent powder to plastic varies from 15-30% (weight proportion) based on requirement of brightness.
5. Try to keep the holding time of material in machine to a minimum time as possible, otherwise the material blacken.
6. To avoid darkening of goods, suitable lubricants Ex. (EBS wax) may be added during the processing, extrusion or injection molding.

For example:

1. Colorless and transparent plastic grain (50 lbs.) and Liquid wax (50~100g) mix uniformity.
2. Afterward adding photoluminescent pigment (16.5 lbs.)mix uniformity. We suggest to using our more intense glow and after-glow time, Series PLG in 45-55 Microns Size, PLG 25 – 35 Microns or PLG 15 – 45 Microns.
3. Injection molding plastic mixture.