

To the media:

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Sekisui Plastics developed TECHPOLYMER™ Biodegradable Particle

Sekisui Plastics Co., Ltd. (Head Office: 2-4-4 Nishi-tenma, Kita-ku, Osaka, Japan; President: Masato Kashiwabara) is pleased to announce that it has successfully developed TECHPOLYMER EF series, a biodegradable polymer particle.

1. Background

In recent years, marine pollution by plastic has become serious. The impact on the ecosystem by microplastics contained especially in face wash, toothpaste and body soap is a serious problem.

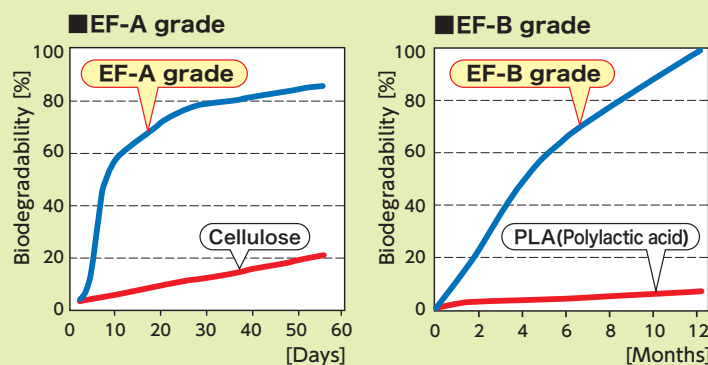
TECHPOLYMER is a polymer particle born from unique polymerization technology of Sekisui Plastics. It has been adopted for a variety of applications, such as light diffusion materials for LCDs and lighting covers and matting agents for paints and inks. In cosmetic applications, it is used as an additive to improve foundation smoothness, and effect of soft focus to remove stains and wrinkles on skin.

We have consistently produced environmentally friendly products, and in this time, have developed TECHPOLYMER EF series, biodegradable polymer particle to handle the present situations.

2. Feature

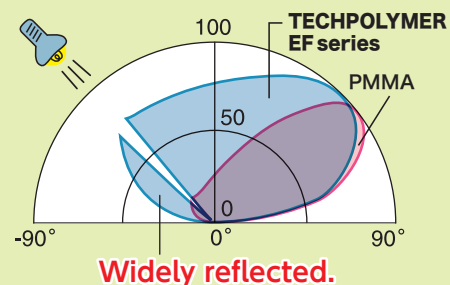
- Micron-sized polymer particles made from biodegradable resin. Biodegraded in water and soil.
- Because of soft particles (PMMA particle contrast: about 1/5 hardness), it can impart a smooth touch.
- Compared to previous PMMA particle, It shows superior light reflection and improves soft focus effect.

◎ Evaluation of Biodegradability



◎ Evaluation of light reflection performance

Each particle is applied on a black reflector, measured the reflected light intensity distribution of the light radiated from -45° with goni photometer. (Light reception range: -90°~90°)



Data are measured values, not guaranteed values.

3. Future Outlook

(1) **Sales plan:** 60 million US\$ (As a whole TECHPOLYMER)

(2) **Anticipated fields / Applications**

For the point of view of conservation of the natural environment, we will increase number of adoption in cosmetic applications and actively contribute as the environmental leading company. In addition to the cosmetic field, we will create new markets by promoting business development in other fields, such as paints for automobile interior materials, and agriculture and civil engineering materials.

END