

High light-reflection factor under high temperature surroundings

Announcing the release of the thermosetting plastic molding-materials “Full Bright™^(※1)” used for LED reflectors

(※1) “ Full Bright “ is Panasonic company’ s trademark.

February 27, 2012, Osaka, Japan—Industrial Devices Company, Panasonic Corporation has developed the thermosetting plastic molding-materials “ Full Bright™ ” used for white-color LED reflectors, which features excellent light-reflection factor under high temperature surroundings. We can provide unsaturated polyester molding compounds “ CE 6000 ” and epoxy molding compounds “ CV 1800 ”

With the increasing application of LEDs, that is to say, back-light of liquid-display TVs, general lightings, in-vehicle head-lamps, brake lamps, LEDs have been required to be higher brightened as well as higher powered. As the heating value is increased, thermosetting-resin materials used for LED reflector have been required to have excellent heat-resistance properties and to be hardly-discolored by high temperature in the market. To meet the market demand, Industrial Devices Company, Panasonic Corporation has succeeded in developing the thermosetting plastic molding-materials “ Full Bright ” used for LED reflectors.

【Features】

Excellent light-reflection factor for many hours under high temperature surroundings

■ **Unsaturated polyester molding compounds “ CE6000”**

(LED output power: from 0.5 W to 2.0 W)

- Light-reflection factor: 95 % initial time (room temperature)
⇒ more than 75 % 150 °C × 1000 hours later
- Molding method : injection molding

■ **Epoxy molding compounds “ CV 1800 ”**

(LED output power: from 0.5 W to 3.0 W)

- Light-reflection factor: 95 % initial time (room temperature)
⇒ more than 80 % 150 °C × 1000 hours later
- Molding method : transfer molding

【Applications】

LED lightings, LED back-light of TVs or notebook PCs etc.