

## Case study

# Extra life infused into the transparent cover of lighting devices

**INFINO® High Impact & heat stability PC, SC-1280UR**



## The Challenges

Materials used in lighting products require excellent durability. For this reason, traditionally strong materials such as metals and glass have long been adopted for lighting devices. But with the introduction of new technologies, a growing number of customers are opting for plastics armed with excellent material properties including durability.

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## The Solutions

In particular, lighting device manufacturers are increasingly demanding more strict standards for transparent materials used in lighting covers. The requirements involve a range of categories: transparency level, thermal stability, flowability and impact strength suitable for large-scale thin-wall injection molding, and UV stability.

Lighting covers must meet the material property requirements in order to maintain their clean appearance. SC-1280UR has been developed specifically for lighting devices. This PC comes with excellent flowability and strength resistance suitable for thin-wall injection molding. In addition, it has excellent thermal stability, which ensures the high quality of the final products, not to mention its outstanding UV stability. SC-1280UR can be applied to a wide range of large-scale thin-wall design schemes, and its superior quality stability allows for the extended life of lighting covers.

LOTTE Advanced Materials' *INFINO*® High Impact/heat stability PC SC-1280UR is a great choice for the material of lighting solutions that can successfully replace existing materials.

### **Key Features**

- Excellent transparency
- Ease of Processing
- UV resistance & High Impact Strength
- Good Heat Stability

### **Customer Benefits**

- Outstanding Quality Reliability
- Life of cover extended thanks to excellent durability
- Light-weight solution
- Design Freedom for large-sized

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**HEUNGSE LEE** | Application Development Manager  
Hs05.lee@lottechem.com  
T +82-31-596-3622

For more inquires, please contact.