Key W2

Purposes

- **Automotive**
- **Technical part**
- **Aspect part**
- **Remote control**

Technologies

- **IMF by overmolding**
- **Multilayer silkscreen**
- **Assembly**
- **Bi-injection**

Know-how

- **Decoration**
- **Fitting, berthing and sets of devices**
- **Watertightness**

Issue

Beyond the challenge that represents the keys in their aesthetic aspect, the technological requirements are increasingly strong in order to match the new uses of drivers. The specification of the car manufacturers requires mechanical strength of the part, a solid and durable decoration as well as a resistance to various abrasions. MIHB therefore had to define the most appropriate technologies to meet all these requirements.

The innovation was to create a key in part with a silk-screened decor: this was the first time this technique was used on this type of plastic part.

Identity card

Launch year : 2009

Nb of parts a year : 100 000

Customer : Peugeot 508 key

Part dimensions : 70x40x19

Market : Automotive

Technology : IMF and bi-injection

Solution and benefits

The success of this project aimed at an ambitious goal: to personalize the keys of cars without limit. By working together, MIHB and our customers have succeeded in this challenge and have pushed the limits to create ever more new possibilities in the realization of car keys. This success also makes it possible to be closer to the needs of consumers.

The technologies used by MIHB make it possible to create decoration of quality that lasts in time. In addition, IMF (In Mold Forming) enriches the plastic part during the injection cycle by adding a film into the mold. Bi-injection has the advantage of saving both time and mechanical performance.

(Re)-discover IMF : http://www.usinenouvelle.com/expo/injection-de-plastiques-imf-in-mold-p263276.html and bi-injection : http://www.usinenouvelle.com/expo/bi-injection-p3339663.html

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