Connector

Purposes

- **Automotive**
- **Technical part**
- **Under-the-hood**
- **Fluid management**

Technologies

Multi-injection :
- 4k
- Injection of thermally conductive material

Know-how

- **Co-design**
- **Material research**
- **Dimensional**
- **Online assembly**

Issue

For this project, EMITEC called on MIHB to meet specific needs: the part produced had to be resistant to meet technological requirements. Indeed, MIHB had to bring some answers to new anti-pollution regulations, such as urea resistance, good capacity of conductivity, thermal insulation and part sealing.

This connector has given rise to a work of co-design between MIHB and EMITEC. Research has, for example, been done to find the most suitable material to meet these constraints while respecting the initial dimensioning. It turned out that four-material injection was the best way to obtain a technical part that meets the mechanical and functional requirements requested by EMITEC.

Identity card

Launch year : 2014
Nb of parts a year : 1,5 M
Customer : Mercedes/Bmw for fuel
Parts dimensions : 71x31x28
Nb of verified ratings : 6
Market: Automotive
Technologie : 4k

Solutions and benefits

With quadri-injection, materials with different characteristics can be incremented to obtain a part that responds to different technological stakes. MIHB therefore has the ability to design and produce a part that meets different needs.

For example, the conductive material allows the supply of temperature, avoiding the freezing of the product circulating in this connector.

(Re)-discover the multi-injection : www.usinenouvelle.com/expo/guides-d-achat/la-multi-injection-de-matieres-plastique-167

mihb
Transform to success