

Frame Y



Purposes

- Automotive
- Batcher frame of exhaust gas
- Air management
- Technical part



Technologies

- PPS injection
- Overmolding
- Inserts assembly



Know-how

- Qualité of the tooling jointing plant
- Mold at 140°C (PPS)
- Co-design
- Dimensional

Issue

The issue raised by the customer was mainly the problem of constant air flow between the entrance and the exit of a part initially realized in foundry.

The thinking was therefore to move from a foundry part to a plastic part. The advantages of plastic injection were then to gain in weight and productivity, while retaining the technical needs and the shape of the original part. This one has been co-designed with our client. The EGR valve allows the recycling of engine gas to reduce CO2 emissions from a car, which has a significant environmental impact.



Solution and benefits

The plastic thus allows a very good resistance to the temperature and the pressure, to which this part is faced. By replacing metal with plastic, the 3D shape of this piece was now freer than before. A considerable lightening in the system is also a major advantage for our customer.

The control of the technical transformation of material and the management of the full auto assembly line make MIHB a recognized expert in these fields.



Identity card

Launch year : 2008
Nb of parts a year : 220 000
Customer : EGR valve
Parts dimensions : 194x98x90
Market : Automotive
Technology : inserts overmolding on PPS

