CASE STUDY 1

Lead Time: Start Time: 30/06/04

End Time: 26/10/04

APQP: Not Required

Part Spec: Nylon 6

Mould Flow: Required

Tool: 1 IMP Hardened to 48-52 Rockwell C

3D Model: Required

Summary:

Where do we start with this one! Firstly we had to work with, alter and modify an industrial designer's perception of how he saw the part working.

The material choice was crucial in so much that it had to be resistant to germicide, withstand high pressure washes and to be transparent to infa red signals.

The tool incorporated reverse sliding cores to release the front catch and 2 up and away release mechanisms for the internal hinge holes. The feed position had to be carefully calculated, as the part required a metallic master batch, which is prone to flow lines. A good feed position can nearly eliminate these, a poor one can make them worse.

Finally the part had to be dimensionally stable as there was a tolerance build up between the 3 other parts that located into this one. Labradors were not required for this project, good job we employ terriers!

Please click the link to see the video http://www.patterson-rothwell.co.uk/case-studies/article/turning-design-into-moulding-reality.htm