

The items contained in every DFM study JEC Mold submits before fabrication starts.

How to Use This Checklist

We submit a DFM for every mold and ask for your comments before fabrication starts. Work through the items below in order; the gating section and the draft-and-thickness section are the two that most often produce a part change rather than a tool change, and they are cheapest to resolve at this stage.

Checklist

1. Basic project and product information: part number and name, steel material and resin material, injection machine specification
2. Injection system: detailed pictures of the gating proposed for the part
3. Main mold layout: the overall mold with dimensions shown
4. Product main parting lines and the split lines of the inserts
5. Draft angle analysis and product wall thickness study
6. Ejection layout and concept
7. Cooling sketch layout
8. Product surface finish review
9. Part tolerance review and steel tolerance review
10. Any other customer requirements raised for this project

What to Send With Your Comments

- 3D part data in STEP, IGES, Parasolid, CATIA, SolidWorks
- Resin or alloy grade
- Expected annual volume and program life
- Your mold standard, or confirmation to use DME / Meusburger / HASCO / Progressive / MISUMI
- Target lead time and any surface finish requirement