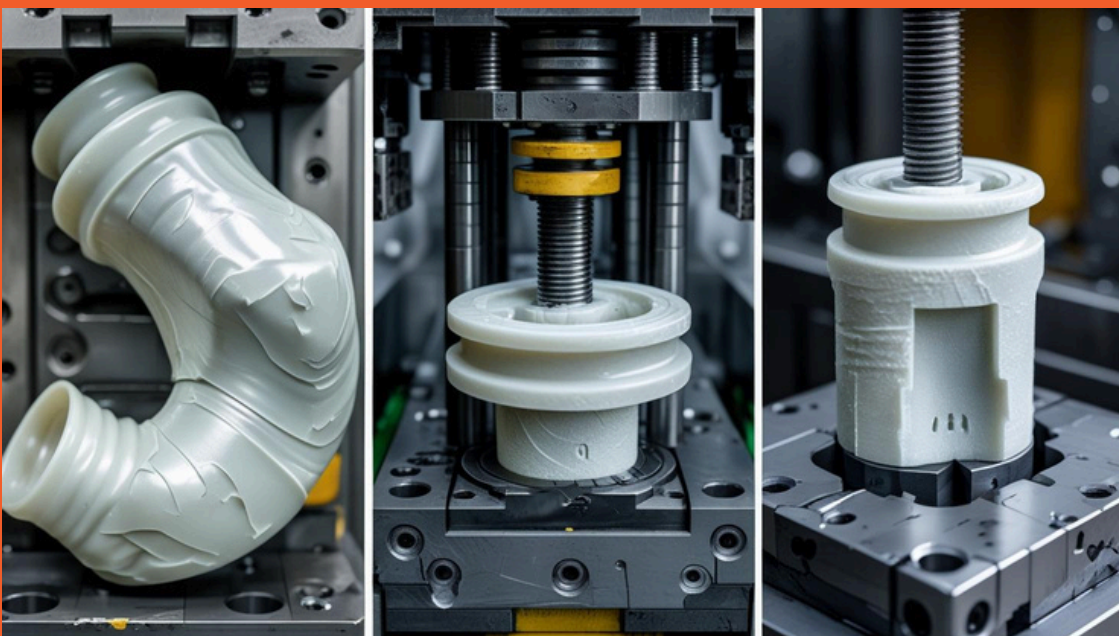


5 Quick Fixes for Costly Injection Moulding Design Mistakes

- Avoid expensive errors.
- Design smarter.
- Launch faster.



PRODUCT DESIGN ENGINEERING



MISTAKE 1: NO DRAFT ANGLES

The problem: Part sticks in the tool.
The fix: Add 1–2° draft minimum.
More for textured surfaces.

1

2

MISTAKE 2: INCONSISTENT WALL THICKNESS

The problem: Warping and sink marks.
The fix: Keep walls 2–4mm, use ribs for support.



3

MISTAKE 3: OVERCOMPLICATED GEOMETRY

The problem: Expensive tooling.
The fix: Eliminate undercuts, simplify design.



5



4

MISTAKE 4: OVER-SPECIFYING TOLERANCES

The problem: Longer machining, higher cost.
The fix: Only apply tight tolerances where truly needed.



MISTAKE 5: IGNORING MATERIAL BEHAVIOUR

The problem: Cracking or failure in-use.
The fix: Choose plastic for real-world performance, not looks.

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