

# DFM CHECKLIST

**TITLE**

**DATE**

	<b>ITEMS</b>	<b>CONSIDERATIONS</b>
<b>PART</b>	<input type="checkbox"/> Part Name <input type="checkbox"/> Part Number <input type="checkbox"/> Part Image (Isometric/3D) <input type="checkbox"/> Part Dimensions <input type="checkbox"/> Material Type <input type="checkbox"/> Material Grade <input type="checkbox"/> Drawing Number <input type="checkbox"/> Drawing Revision <input type="checkbox"/> Mass/Weight <input type="checkbox"/> Plastic Shrinkage	Confirm accuracy and completeness Confirm accuracy and completeness Good for ease of reference Overall dimensions (LWH) Plastic family Specific grade identified? Confirm accuracy Important that the current version is being used Confirm accuracy Shrinkage percentage is very important
<b>MOLD</b>	<input type="checkbox"/> Tool Type <input type="checkbox"/> Mold Frame Material <input type="checkbox"/> Runner Type <input type="checkbox"/> Side Actions <input type="checkbox"/> Number of Cavities <input type="checkbox"/> Cavity & Core Material <input type="checkbox"/> Surface Finish (Cavity) <input type="checkbox"/> Surface Finish (Core) <input type="checkbox"/> Slide or Pin Steel <input type="checkbox"/> Mold Dimensions	Two-plate, three-plate, family, other? Type of steel Cold or hot? Any slides, lifters or other items needed? Multiple cavities should have cavity IDs Type and hardness of steel (or other metal) Preferably an SPI standard Preferably an SPI standard Type and hardness of steel Overall dimensions (LWH)
<b>PARTING LINE</b>	<input type="checkbox"/> Hot Side <input type="checkbox"/> Cold Side <input type="checkbox"/> Parting Line Location	Identified Identified Shown on the part
<b>GATE &amp; RUNNER</b>	<input type="checkbox"/> Gate Type <input type="checkbox"/> Gate Size <input type="checkbox"/> Gate Location <input type="checkbox"/> Runner Size	Sub gate, edge gate, other? Dimensions of gate Shown on the part Dimensions of runner
<b>EJECTION</b>	<input type="checkbox"/> Ejection Method(s) <input type="checkbox"/> Ejector Pin Sizes <input type="checkbox"/> Ejector Pin Locations <input type="checkbox"/> Internal Threads on Part?	Pins, sleeves, other? Pin diameters Shown on the part Rotating cores, collapsible cores, other?
<b>DRAFT ANALYSIS</b>	<input type="checkbox"/> Surface Draft Angle Findings <input type="checkbox"/> Recommendations <input type="checkbox"/> Mold Open & Close Direction <input type="checkbox"/> Scale/Measurement	Are the draft angles adequate for ejection? Any suggested changes for proper ejection? Indication of how the mold opens and closes What are the draft angles?
<b>POSSIBLE ISSUES</b>	<input type="checkbox"/> Wall Thickness Okay? <input type="checkbox"/> Sink Marks? <input type="checkbox"/> Radius Needed? <input type="checkbox"/> Bosses Okay or Needed? <input type="checkbox"/> Ribs Okay or Needed? <input type="checkbox"/> Undercuts? <input type="checkbox"/> Suggested Design Changes?	Not too thick, not too thin, uniform? Any possible sink mark locations? Any problematic sharp edges or corners? Are the bosses acceptable or needed? Rib thickness to nominal wall ratio okay? To be eliminated, or how accommodated? Any other issues or opportunities to optimize?
<b>MISCELLANEOUS</b>	<input type="checkbox"/> Mold Engraving & Identification <input type="checkbox"/> Inserts? <input type="checkbox"/> Tool Layout <input type="checkbox"/> Other	Put part and ownership info on mold Interchangeable or other inserts? Overall structure Overmolding? Insert molding? Cycle counter?

**NOTES**

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Completed By: \_\_\_\_\_



Precision provides services, resources and guidance to help people get the most out of their plastic injection molding.

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