

DFM CHECKLIST

TITLE

DATE

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

NOTES

Completed By: