**Checklist – Molded Parts**

This checklist covers the items that should be confirmed when preparing to release a drawing for custom Molded Parts. Engineers reviewing a drawing should inspect the document for appropriate notations covering the items in the checklist. This list is not exhaustive, and care should be taken to make sure that special features of the part designed are appropriately noted.

The drawing covered by this checklist is a design record for engineering used to communicate the requirements of the part to suppliers for their process control and to your company incoming inspection processes.

## Common Drawing Format Requirements

| Item | Description | Check |
| --- | --- | --- |
| 1.1 | Company Name, Address, Contact Information |  |
| 1.2 | Proprietary Information Statement |  |
| 1.3 | Drawing Title |  |
| 1.4 | Drawing Number |  |
| 1.5 | Revision |  |
| 1.6 | Default Dimensional System (inches / mm) and Tolerances |  |
| 1.7 | Sheet Number and Total Number of Sheets |  |
| 1.8 | Method of Approval |  |
| 1.9 | Projection angle symbol |  |
| 2.0 | Sheet Size |  |

## Attachments

| Item | Description | Check |
| --- | --- | --- |
| 2.1 | CAD file (e.g., STEP) appended or zipped to the Electronic Drawing  Is the CAD file the same version as the Drawing? |  |
| 2.2 | Graphics Artwork files appended or zipped to the Electronic Drawing |  |
| 2.3 | Manufacturing specification or workmanship standard document |  |

## Material Specifications

| Item | Description | Check |
| --- | --- | --- |
| 3.2 | Material Type and Grade or Specification |  |
| 3.2 | Material Manufacturer / Part Number |  |
| 3.3 | Colorant or filler material to be added or excluded |  |
| 3.3 | Material Color  If custom, consider having color chips molded to distribute for color matching. |  |
| 3.4 | Over-mold material specifications, if any, same information as base material |  |

## Surface Finish

| Item | Description | Check |
| --- | --- | --- |
| 4.1 | Surface texture of part |  |
| 4.2 | Silkscreen or Pad Printing information and location. Attach artwork file. |  |
| 4.3 | Painting  Color Specification: Color Description, Mfg and Part Number of Paint – or –  Color Standard: RAL, Pantone, Federal Standards  Paint Texture Specification  If custom, consider Paint Chips for matching. |  |

## Bill of Materials

| Item | Description | Check |
| --- | --- | --- |
| 5.1 | Threaded Inserts or other parts added during or post-molding.  Manufacturer, Part Number, Quantity, Reference Designation |  |

## Dimensions

| Item | Description | Check |
| --- | --- | --- |
| 6.1 | Identify Critical Dimensions to be checked on Incoming Inspection |  |
| 6.2 | Are tolerances appropriate for molding method? |  |
| 6.3 | Dimension and Tolerance Standards and Stack-up |  |
| 6.4 | Wall thickness appropriate for material and process. |  |

## Notes

| Item | Description | Check |
| --- | --- | --- |
| 7.1 | RoHS / REACH Compliance to all related process (e.g., material, paint, helicoils, etc.) |  |
| 7.2 | Default Tolerances for use with attached CAD files. |  |
| 7.3 | Drawing Standard (ISO / ANSI) |  |
| 7.4 | Insert insertion instruction or reference to instructions or tools to be used |  |
| 7.5 | Masking instruction for coatings (front side, not back side, overspray etc.) |  |