



# Project Management System

Phase 1: Planning	Phase 2: Tool Design & Development	Phase 3: Process Design & Development	Phase 4: Tool & Process Validation	Phase 5: Release for Production
<ol style="list-style-type: none"> <li>1. <b>Customer order</b> <ul style="list-style-type: none"> <li>▶ Released 3D data</li> <li>▶ 2D print</li> <li>▶ Quote / Part validation</li> </ul> </li> <li>2. <b>APQP documents</b></li> <li>3. <b>Project Definition Scope &amp; Goal</b></li> <li>4. <b>Kickoff meeting</b> <ul style="list-style-type: none"> <li>▶ Project Gantt chart</li> <li>▶ Team definition</li> <li>▶ Outstanding issues</li> </ul> </li> <li>5. <b>Checklist sign-off</b></li> </ol>	<ol style="list-style-type: none"> <li>1. <b>Approved final tooling quote</b> <ul style="list-style-type: none"> <li>▶ Approved design released to tooling supplier</li> <li>▶ Tooling PO released to supplier</li> </ul> </li> <li>2. <b>Design feasibility review with OK to tool disposition</b> <ul style="list-style-type: none"> <li>▶ Detailed project timing plan (Gantt)</li> <li>▶ Order purchased components and material</li> </ul> </li> <li>3. <b>Final tool design approval</b></li> <li>4. <b>PFMEA (Process Failure Mode &amp; Effect Analysis)</b></li> <li>5. <b>Tool trial</b> <ul style="list-style-type: none"> <li>▶ T-1 pretextured samples</li> <li>▶ T-2 / texture and final tool adjustments</li> </ul> </li> <li>6. <b>Final tool approval for shipment</b></li> <li>7. <b>Checklist sign-off</b></li> </ol>	<ol style="list-style-type: none"> <li>1. <b>Receive tool at Plastech</b> <ul style="list-style-type: none"> <li>▶ Tool incoming inspection</li> </ul> </li> <li>2. <b>Scientific molding process development</b> <ul style="list-style-type: none"> <li>▶ Viscosity curve</li> <li>▶ Gate seal</li> <li>▶ Pressure loss</li> <li>▶ Cavity balance &amp; repeatability</li> <li>▶ Mold surface mapping</li> </ul> </li> <li>3. <b>PPAP / FAIR draft</b> <ul style="list-style-type: none"> <li>▶ Draft of quality / manufacturing documents</li> <li>▶ Design &amp; development of quality gauges</li> </ul> </li> <li>4. <b>1<sup>st</sup> Production order &amp; forecast from customer</b></li> <li>5. <b>Checklist sign-off</b></li> </ol>	<ol style="list-style-type: none"> <li>1. <b>Finalized customer packaging</b></li> <li>2. <b>Run at rate</b></li> <li>3. <b>PPAP / FAIR approval</b></li> <li>4. <b>ECO to actual</b></li> <li>5. <b>Production schedule</b></li> <li>6. <b>FMEA review</b></li> <li>7. <b>Checklist sign-off</b></li> </ol>	<ol style="list-style-type: none"> <li>1. <b>Overall project review</b> <ul style="list-style-type: none"> <li>▶ Scrap</li> <li>▶ Efficiency</li> <li>▶ Quality</li> <li>▶ Open ECO's</li> </ul> </li> <li>2. <b>Customer satisfaction</b></li> <li>3. <b>Post production project review</b></li> <li>4. <b>Checklist sign-off</b></li> </ol>
<b>Phase 1</b>	<b>Phase 2</b>	<b>Phase 3</b>	<b>Phase 4</b>	<b>Phase 5</b>

*Perfect Parts On Time Every Time*