

DATE:

PARTICIPANTS:



MOLD#

CUSTOMER:

## MOLD DESIGN REVIEW CHECKLIST

### PART INFORMATION

PART NAME(S):

PART NO.(S):

YES	NO	N/A	ACTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has our Customer provided 2D inspection prints?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are the dimensions and tolerances acceptable?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does Tooling Vendor have most current and approved 3D part files?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has TX-IM received down payment from customer?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has a polymer been selected for the tooling to be design and built to?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the correct shrink rate been identified?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Timeline provided by vendor meets customers commitments?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Abbreviated BOM provided by tooling vendor?

### MOLDING MACHINE

Is the press tonnage acceptable?

Will the mold fit into the machine? (Tie bar spacing and platen size)

Is the minimum and maximum daylight okay?

Is the ejector stroke okay?

Will the mold require core pull and does the machine have it?

Will any special equipment be needed to handle or run mold?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the press tonnage acceptable?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Will the mold fit into the machine? (Tie bar spacing and platen size)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the minimum and maximum daylight okay?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the ejector stroke okay?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Will the mold require core pull and does the machine have it?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Will any special equipment be needed to handle or run mold?

### MOLD BASE

Mold base brand, number and steel hardness acceptable?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mold base brand, number and steel hardness acceptable?
--------------------------	--------------------------	--------------------------	--

DATE:

PARTICIPANTS:



MOLD#

CUSTOMER:

## MOLD DESIGN REVIEW CHECKLIST

### PART INFORMATION

PART NAME(S):

PART NO.(S):

YES	NO	N/A	ACTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Eye bolt sizes and hole locations acceptable?

Individual plates have eye bolt holes as needed?

Mold base must have 3.990 inch diameter locating ring and 1/2 inch spherical radius

Mold has ample support pillars?

Pry bar slots located on all mold base plates?

### CAVITIES AND CORES

Parting line locations acceptable?

Cavities and cores to be made from proper steel for intended requirements?

Mold components such as slides, heel blocks, gibs, wedge blocks, etc. made using hardened tool steel?

Is there sufficient steel around the cavity/core inserts (1" steel per 1" depth std.)?

Are there any bad steel conditions?

Draft sufficient to allow for proper ejection of part?

Steel shut-off angles acceptable for intended use? (Minimum of 3 degrees)

Review venting requirements in accordance to plastic resin specifications?

### EJECTION

Ejector pins size and locations acceptable?

Will product and gating system eject properly?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DATE:

PARTICIPANTS:



MOLD#

CUSTOMER:

## MOLD DESIGN REVIEW CHECKLIST

### PART INFORMATION

PART NAME(S):

PART NO.(S):

YES	NO	N/A	ACTION

Contoured ejector pins located flush with core surfaces must be keyed into place?

Knock out pattern used matches press requirements?

Ejector plates have return springs?

### COOLING

Water lines in both mold halves and in cavities, cores, and slides as possible?

Water inlet/outlet locations do not to interfere with molding machine tie bars and mold clamp slots?

All water inlets and outlets shall be stamped and identified on mold base?

Water inlets/outlets fitted with Progressive Components, pcs or DME, Jiffy type quick disconnect fittings?

Water inlets and outlets shall be recessed and installed below the mold base surface

Water lines shall be 7/16 inch diameter or larger wherever possible.

Difficult cooling areas use or inserted with Copper or Aluminum?


### SPRUES, RUNNERS, GATES & HOT RUNNER SYSTEMS

Size of sprue and runner system accounted for in production part pricing?

Sprue and runner system sized and balanced correctly?

Gate location on part does not pose a cosmetic or dimensional issue with part?

Does gating system require full operator @ press? Does production part pricing include full op.?

Are there gate shut-offs for family molds?




DATE:	
PARTICIPANTS:	



MOLD#	
CUSTOMER:	

## MOLD DESIGN REVIEW CHECKLIST

### PART INFORMATION

PART NAME(S):							
PART NO.(S):				YES	NO	N/A	ACTION

APPROVALS:	SIGNATURES	DATE
TOOLING REP.:		
PROCESS REP.:		
PROJECT MGR.:		
CUSTOMER: (if applicable)		