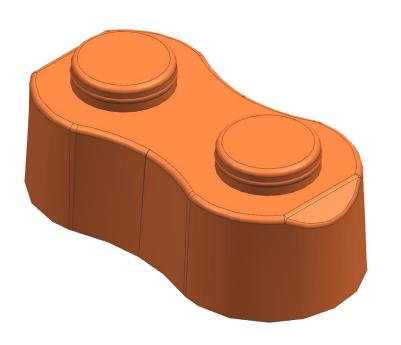
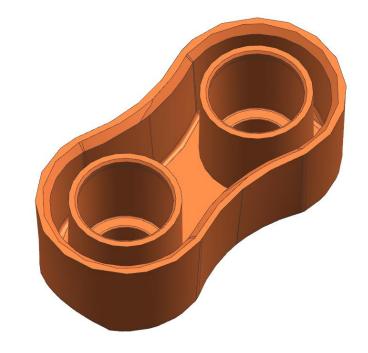


GREEN pages present data created by Jade Molds. **BLUE** pages present information customer has or needs to provide. Customer, please fill in missing information on the **BLUE** customer pages.





Standard block

Please confirm the part name?

Part File Information					
Original Customer provided 3D part file	crazy eight 5-24-23 Pat(1)_20230623.stp	*The name of the customer provided 3D part files goes here			
Original Customer provided2 D part file	XXX.pdf	*A 2D print is needed for dimensional checks after sampling of mold. Typically 5-10 dimensions considered critical to fit or function of part			
Jade Quote Number (JQ):	JQxxxx	*This helps us find your quote in our system and ensures a smooth launch			
PO Number:	xxx	Customer PO for reference			



Material Information				
Material	ExxonMobilTM HDPE HMA 016	*Plastic material required. A generic or similar grade that is readily available in China will help streamline the project		
Color	Yellow、Green、Blue、Red	*Color you would like to see initial samples. Color additives can affect shrink and other material properties.		
Shrink	1.022 in/in (Source: Customer input)	Specific shrink rate. Molds cannot be built to a shrink "range"		
Finish	Core:- Medium Semi-glossy finish B-2 400 Grit Paper Cavity:-Medium Semi-glossy finish B-2 400 Grit Paper	Mold Tech Equivalent is preferred for texture. We also need to confirm adequate draft for release		



Press Size (tonnage)

Min Mold Height

Max Mold Height

Max Ejector Travel

Clamp slot height

Nozzle Radius

KO extension

Water Fittings

KO Threads

10/11/2023

KO Pattern

Locating Ring Diameter

Max Daylight

Barrel Size

Tie Bar Clearance (HxV)

XX

XX

XX

XX

XX

XX

XX

.875

3.990

1/2"

YES

1/2-13

Center, 7 x 7, 4 x 16

JADE #		Customer Supplied Information	
Press Information			
Target Cycle Time	18 s	In seconds	

Delete incorrect sample detail(s) below and enter new text for correct details

Our presses require at least a center Knock out to sample



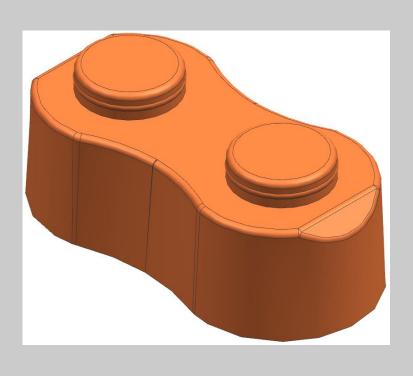
Texture Map

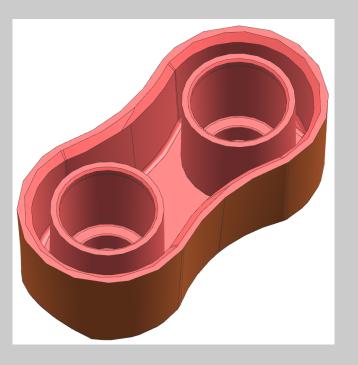
Finish: Cavity - Medium Semi-glossy finish B-2 400 Grit Paper

Draft Required

Core - Medium Semi-glossy finish B-2 400 Grit Paper

Draft Required







Part Engraving Details

Date Code

If Date Code is Required put catalog number of the Date Code here (example "DMDP06-22"). If not required leave blank

Recycle Code Put Recycle C

Put Recycle Code here (example HDPE2 or triangle symbol). If not required leave blank

Part Number/Rev

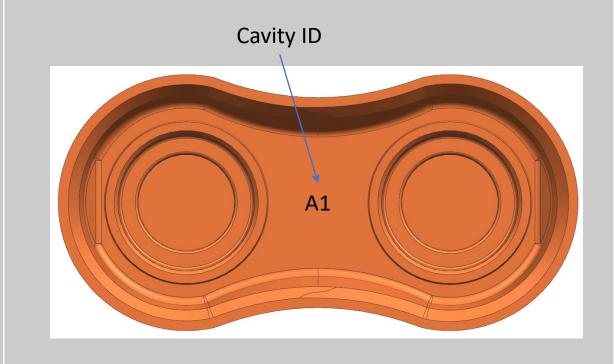
Put part number "Text" here (example "PN800-4329 R3"). Part number can be solid or inserted. Rev level will be inserted on a core pin

Cavity ID

A1,A2,A3,A4.....A32

Please put a screen shot of the highlighted surface where the Date Code, Part Number, Recycle Code and Core ID is located.

If it is not required, remove note above. Use 1 picture only unless Core and Cavity locations are required





We want to make sure we get your outside mold text labelling right. Please fill in labels below with the exact text you want on your mold. Leaving labels blank below is OK, we just won't put it on. The choice is yours.

Mold Text Labels			
Part Name:	Standard block	This information will be engraved directly into the steel on your mold. Any fields left blank here	
Part Number:	xxxx		
EJ Stroke:	Engrave on tool (in inches)		
Mold Weight:	Total Weight(in Pounds){ B side weight (in Pounds); A side weight (in Pounds)}	will not be engraved	
Year:	2023		
Mold Builder:	JADE GROUP		
JADE Mold Number:	JG23053		



Mold Summary

☐ Current 3D Model : See Page 2

☐ Current 2D File : See Page 2

☐ Cavities Qty : 32

☐ Mold Class : 103

■ Mold Number : JG23053

□ Runner System : Hot runner into cold runner sub gate

■ Mold Construction : 2 Plate Mold

□ Steel : Inserted or In Solid

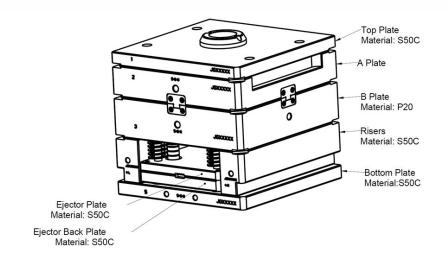
☐ Cavity : H13 48-50 Rc Hardness

☐ Core : H13 48-50 Rc Hardness

☐ Stripper Plate : H13 42-44 Rc Hardness

☐ Mold base steel : S50C

■ Mold Features : Parting Locks, Pry bar slots, Safety Strap, Shot Counter

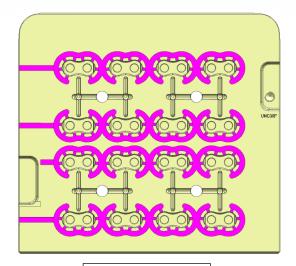




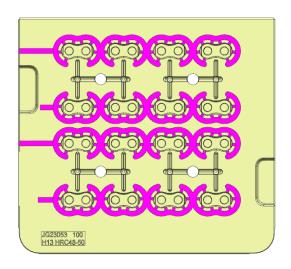
Is a warning plaque required due to special mold functions?



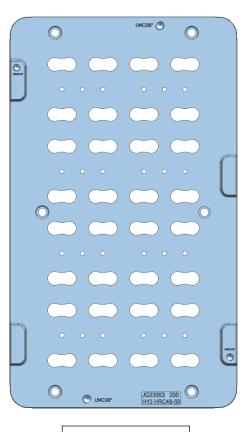




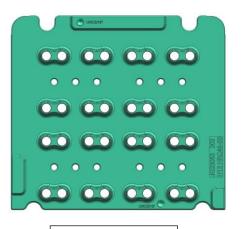
Cavity Insert(101)



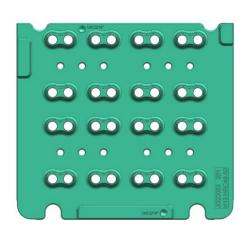
Cavity Insert (100)



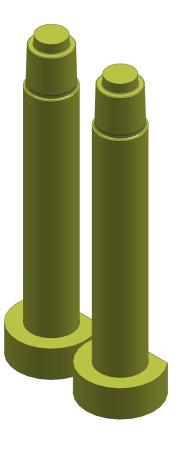
Stripper plate



Core Insert(202)



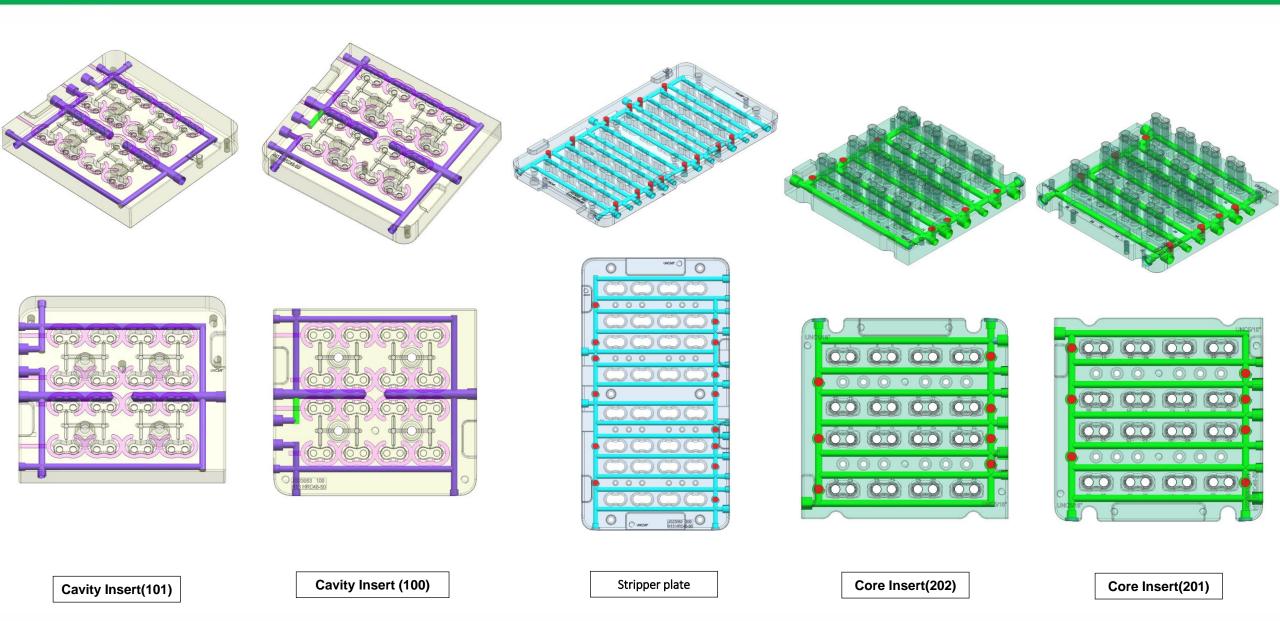
Core Insert(201)



Floating Core
Sub pins

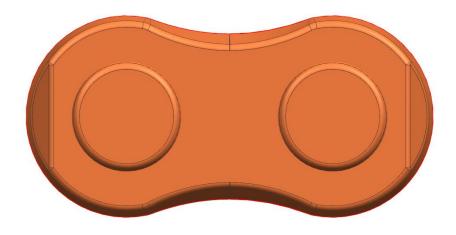


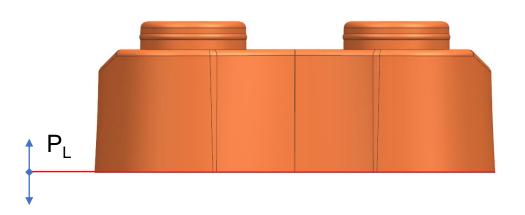










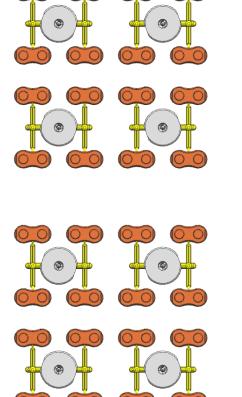


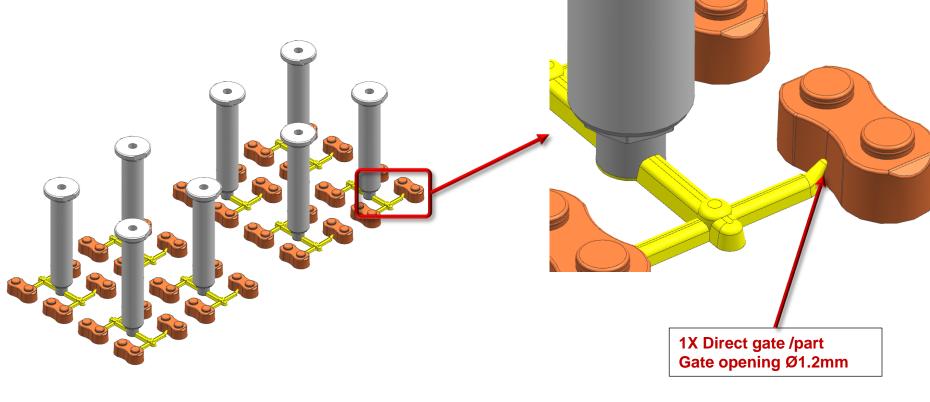
Parting Line Highlighted in Red

Runners & Gates



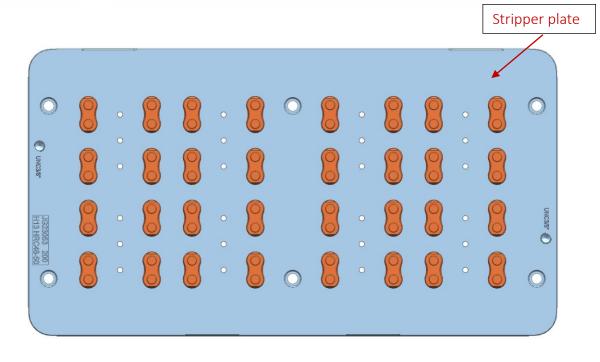
Runner Type: Hot Runner Number of Gates per Part: 1 Type of gate: Direct Gate

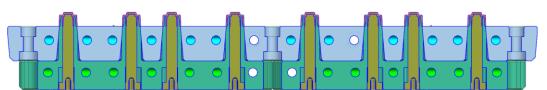


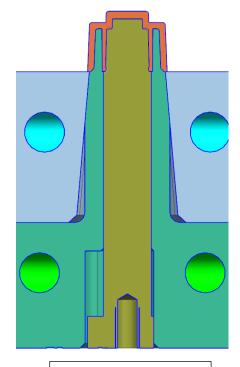


Gate mark (vestige) can form a visual imperfection on the part









Floating Core Pins

Core pins will be spring loaded. They will move along with stripper plate and stop after 8mm of ejection and stripper will continue forward and eject the part.



Ejector Direction

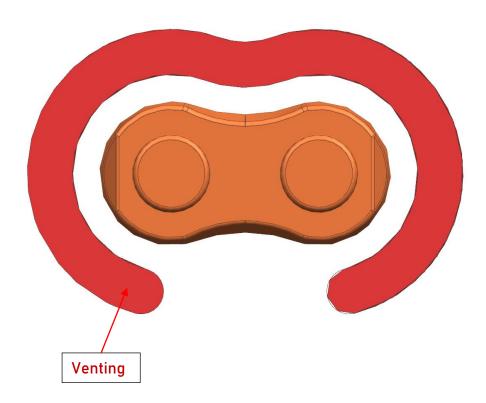
Jade Ejector system standards include Guided Ejection, Support Pillars, Spring Return, Tied In Knock Outs



Sink Marks/Wall Thickness Analysis

VENTING SYSTEM

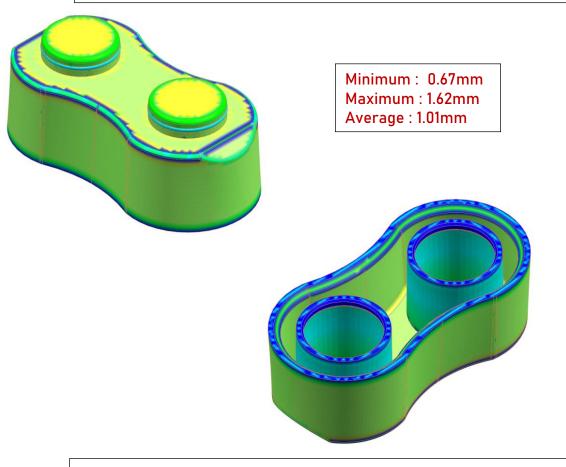
Venting system in the mold is required to avoid air traps in mold cavity.



In the above part, due to the melt fill, the air traps are coming in the weld line areas and end of fill areas. To avoid short fill in the EOF areas we used perimeter venting and Air poppets in this part.

WALL THICKNESS ANALYSIS

Wall thickness variation should be within tolerance limit, so it will allow smooth filling of the mold, otherwise, a sink mark may be observed.



Areas noted above (fig A) is a thicker wall section. These areas are prone to hesitation during fill, sink and warp

3.000

2.750

2.500

2.250

2.000

1.750

1.500

1.250

1.000

0.7500

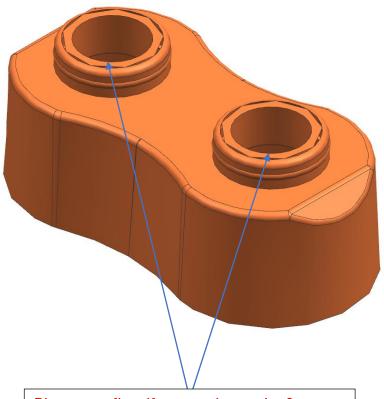
0.5000

.

0.2500

0.0





Please confirm if we need to make 2 versions. V1 without hole, V2 with hole.



3D File Name:-Standard block-JADE-REV00-11July2023

It is certified that the above-mentioned DFM for mold is checked and approved for 3D Mold Design in all respects.				
Sign:				
Date:				

We look forward to discussing this engineering report with you soon so we can adjust as needed and move forward to mold design. Reach out to to discuss.



10/11/2023