

pump-fob-v2-shell-top.iges

Review and Accept

We found non-critical issues in our analysis of pump-fob-v2-shell-top.iges for Injection Molding with ABS. You can review the details below.

What we need from you:

- ⚠ Review and accept advisories
- ⚠ Accept gate and ejector layouts

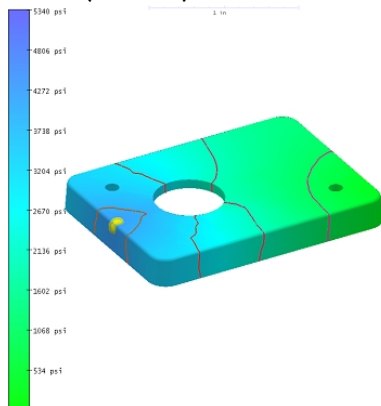
1 Fill Analysis

Fill pressure:

5000 psi.

Number of gates: 1.

This animation shows our virtual mold flow analysis for your part with the material ABS - Cynolac MG47 (MFR=18). The various colors represent the pressure field as indicated on the scale.

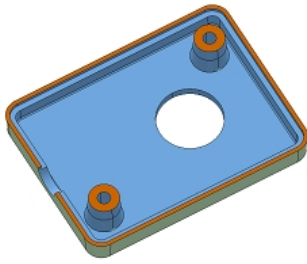


2 Unpolishable Areas

ORANGE color coding indicates areas on the part we are unable to adequately

polish.

These areas are either too deep or too small, restricting our abilities to fully accommodate high polish requests.



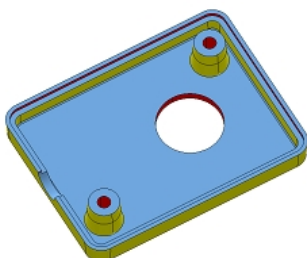
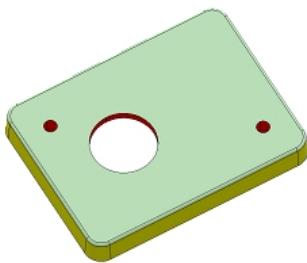
3 Texture

Insufficient draft may cause issues during ejection leading to part distortion and cosmetic flaws, as well as mold damage.

If you choose a textured finish on your part: PM-T1 requires at least 3° of draft, and PM-T2 requires at least 5° of draft. Faces colored YELLOW have a draft of 3-5°, and faces colored RED have a draft of less than 3°.

[> View Area 1](#)

[View Area 2](#)



4 Steel-Core Pin

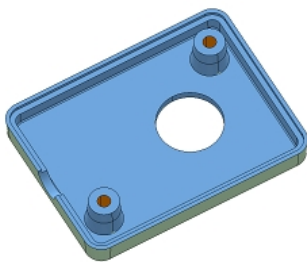
Shown cores will be formed by a steel pin.

Hole features highlighted in ORANGE require the use of steel pins to withstand the stresses of the manufacturing process. The pins are undrafted and will be matched to the largest diameter of the hole.

The following steel core pins will be used on this part:

Diameter	Number of Pins
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2.300 mm	2
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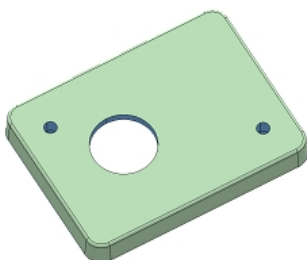
5 Radius

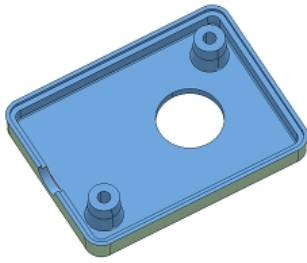
Sharp corners in your geometry will be rounded due to the mold machining process.

Corners that will have a radius due to the milling process are color coded as follows:

[> View Area 1](#)

[View Area 2](#)





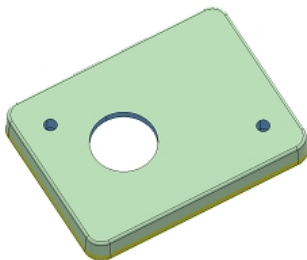
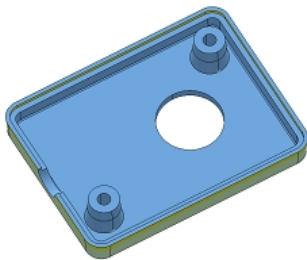
6 Thin Area

YELLOW color coding indicates areas where part thickness is significantly less than nominal.

These areas may have unformed areas, weak knit lines, or significant texture variations.

[> View Area 1](#)

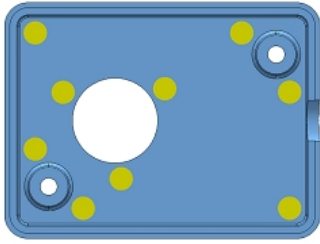
[View Area 2](#)



7 Ejector Layout

Our proposed ejector layout is shown.

Ejector pins are cut square. Pins colored YELLOW will leave an indentation on your part, typically within 0.005 in. (0.13mm) of the surface.



8 Tunnel Gate

Injection point shown in YELLOW.

Your part is gated using a tunnel gate shown in YELLOW, which will leave a small elliptical vestige, typically within +/- 0.005 in. (0.13mm) of the surface.

