



Strong Ash Fridge Magnets



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Summary

Strong Magnets for your refrigerator door - embedded 1.25" x 0.125"
Neodymium magnets

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Strong Magnets for your refrigerator door - embedded 1.25" x 0.125"
Neodymium magnets

Print instructions

Here's my design for fridge Magnets. I sized it for 1.25"x0.125" Neodymium Magnets (note: I had a typo here before as these were listed as 0.25 thick. Thanks for finding the mistake, JasonS93). My fridge has Stainless Steel panels on the front. They are less ferromagnetic than the old style enamel coated steel fridges, but there is still some iron in there. The trick is that you need some pretty strong magnets to make use of it. I liked the aspect ratio of large flat magnets, so that's what i picked fro this project. I searched around a bit and these guys are the same price on either eBay or Amazon, so I ordered from Amazon. \$13 for 10, so \$1.30 each. Not bad.

I made a few different head shapes for the magnet. I ended up liking the "small head" version the best, although my wife and daughter like the "loop" version the best.

I have also included a version that just encapsulates the magnet, so you can load it and any other STL you want into your slicer and print it as a single piece. For example, you can see in my photos that I tried adding a rose, but the rose didn't print well. I'll try again, but I just wanted to upload these so y'all can try them out :)

Process (for printers running Marlin or a derivative):

Slice the STL in your slicer of choice.

After slicing, view the sliced file layer by layer.

Find the layer that is the first one that forms the ceiling around the magnet

Open the sliced gcode file in a text editor and insert an M600 command immediately before the start of the layer that forms the ceiling above the magnet.

When the print gets to the M600, it will pause and pull away from the print.

Add magnet. I use a paper towel to clean the top of the magnet with acetone or IPA to help the filament to stick better.

Resume print. The first layer over the magnet may look very bad, but just let it go and monitor it. The next layer will probably smooth it out and everything will be fine :)

CAUTION: Neodymium magnets can be very dangerous. I assume no responsibility for your handling of the magnets. I tried to print a few of these next to each other on the bed and the magnets kept interacting and leaping out of position. One magnet shattered into very sharp shards.

DOUBLE CAUTION: Do not let your child swallow these magnets. That would be like the end of the world. Even the fully printed and encapsulated magnets are technically too small to let a sub 3yr old play with, although they are hopefully too large to be swallowed.

These are the magnets that fit perfectly: https://www.amazon.com/gp/product/B01MSTKTSF/ref=oh_aui_detailpage_o01_s00?ie=UTF8&psc=1

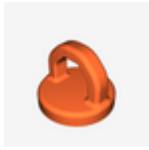
Model files



safm_-_full_head.stl



safm_-_blank_puck.stl



safm_-_loop_head.stl



safm_-_small_head.stl

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