Two-Piece Stacking Hexagon Coaster

Lyl3

VIEW IN BROWSER

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Summary

A coaster base for design inserts. The sides are angled so a collection of them are stackable inside one another.

Household > Kitchen

Tags: coaster drinkcoaster thingiverse

This thing has only the coaster base. (Edit: I've now added a single insert). The sides of the coaster are angled so a collection of them are stackable inside one another.

Over 400 designs to choose from in the 100Hex project. The snowflake inserts are available at: Snowflake Coasters.

This is just a simple stacking hexagon coaster meant to compliment the 100Hex project. It is designed to fit any of the hexagon designs from the 100Hex project if they are scaled to 75%. Most of the designs in the 100Hex project are suitable for using as coaster inserts, but not all are. Of course any other hexagon-shaped pattern that's sized to 90 mm diameter and 1.5 mm height could also be used as an insert.

To get a great looking two-color coaster, simply print the coaster from this thing in one color and then scale one of the 100Hex designs to 75% and print it in a different color. You can glue the two parts together if you want,

but there's really no need to. If you don't glue them, you can swap out the inserts for seasonal designs such as the snowflakes for Christmas/winter.

If you have a dual color printer or want the coaster and the insert in the same color you can put both parts in the slicer and raise the insert 0.8 mm, which is the thickness of the "floor" of the coaster.

The coaster is big enough to hold a standard sized drink can or bottle or a typical drinking glass. You can of course scale it up if you want a larger coaster.

Updated 2019-09-09: Version 2: better walls, better stacking.

The walls on the original version were about 0.8 mm wide, which is only 2 print lines wide if using a typical 0.4 mm nozzle. This meant that it was impossible to hide the start-of-layer Z seam inside the wall, and depending on the filament I was using, this usually resulted in poor quality of the walls with noticeable under-extrusion in the areas where the layers started.

For the updated version, I doubled the wall width to 4 print lines so that the Z seam can be hidden inside the wall. This required increasing the top/bottom diameter offset to allow stacking, resulting in walls with a "greater" angle, which I increased even more to improve the stackability: 53.49° vs 69.69° for older version. To get Cura to properly slice the model with minimal travel movements I enabled Optimize Wall Printing Order, Set Z Seam Alignment to User Specified and Z Seam X and Z Seam Y to 500 mm.

Included Inserts

Spider Web

This remix is based on

Two-Piece Stacking Hexagon Coaster

by Lyl3

Model files

hexagoncoasterv2.stl

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insert-spiderweb.stl

Find source .stl files on Thingiverse.com

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