



Diamond-like Geodesic Low Polygon Planter Pot or Vase



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Summary

A simple low polygon, elegant looking diamond-like geodesic planter or vase printable on Prusa Mini.

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Tags: [diamond](#) [gardening](#) [geodesic](#) [herbs](#) [lowpolygon](#) [planter](#) [vase](#)

About the Design

I wanted a large pot that I could print on my Prusa Mini+ and worked with my self-watering insert that this is remixed from. I love printing 2 tone planters as it makes it easy to create many unique variations and is very simple to do a color swap in a Slicer program. I used this planter for some rare basil and pared it up with the self-watering planter insert to make it easy to grow herbs in my house.

This pot has shell/wall thickness of 2.5mm to make it water tight and could also scale down to 50% size no problem for smaller plants. I printed .15mm layer height using Overture Matte Teal PLA with Overture Silk Gold PLA for the top part. Color change set in Prusa Slicer. I did have some layer shift on my model due to my belts losing tension but the model should print really well for a well calibrated machine without supports, rafts or

brims.

Print Settings that Worked for Me

- **.15-.2mm Layer Height**

I find this to be a good number for speed and quality. I'm sure .3 would work well too but more noticeable layers.

- **100% Infill**

I recommend setting 100% infill to make the pot water-tight. You can paint Titebond III Ultimate Wood Glue on the inside if you have leaking issues.

- **Set Perimeters to 8 lines for Vertical Shells (optional)**

I find setting this in the Slicer gets smoother sidewalls and a tiny bit faster print over an infill pattern.

- **Planter Insert Note:** I didn't scale the Self-watering Planter Insert that I link to in the remix as it was designed for the default size. You can scale the insert and pot down or up pretty easily to fit you needs.

Let me know your results or thoughts?

I'm starting to design more planters. I'm playing around with shell thickness to maintain water-tightness but also keep filament as low as possible. I find 2.5m works well for this design and scales down while maintaining water-tightness, but if you have different experiences, let me know!

This remix is based on



Scalable Self-watering Planter Insert with Optional Funnel

by Joshed

Model files



low-poly-diamond-like-geodesic-pot.stl

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