



Leaf Napkin Rings



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updated 24. 11. 2022 | published 24. 11. 2022

Summary

Napkin rings made from various autumnal leaves such as oak, chestnut, beech and maple.

[Household](#) > [Kitchen](#)

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[serviettenring](#) [mapleleafnapkinring](#) [leafnapkinring](#)

The idea for these rings came to me while browsing the autumnal posts. I thought this would make a nice variant to traditional napkin rings. They are also timeless and can thus be used throughout the year.

Scale

At 100% the regular sized leaves have an inner diameter of 35mm and are 3mm thick. I also made a smaller version. These are not actually smaller (when viewing the .3mf file), but are thicker, which results in a thickness of 3mm and around 20mm inner diameter when scaled down to 60% in your slicer.

You can of course scale both version easily in Prusa Slicer to fit your napkins, but keep in mind, that simply scaling all dimensions will alter the thickness, which is why I made different versions to choose from.

The smaller version should hold a paper napkin quite nicely, while the slightly bigger version would be more suited for cloth napkins, but I haven't tested the latter. I would advise you to just roll your fabric napkins and estimate the necessary diameter of a fitting napkin ring.

Printing

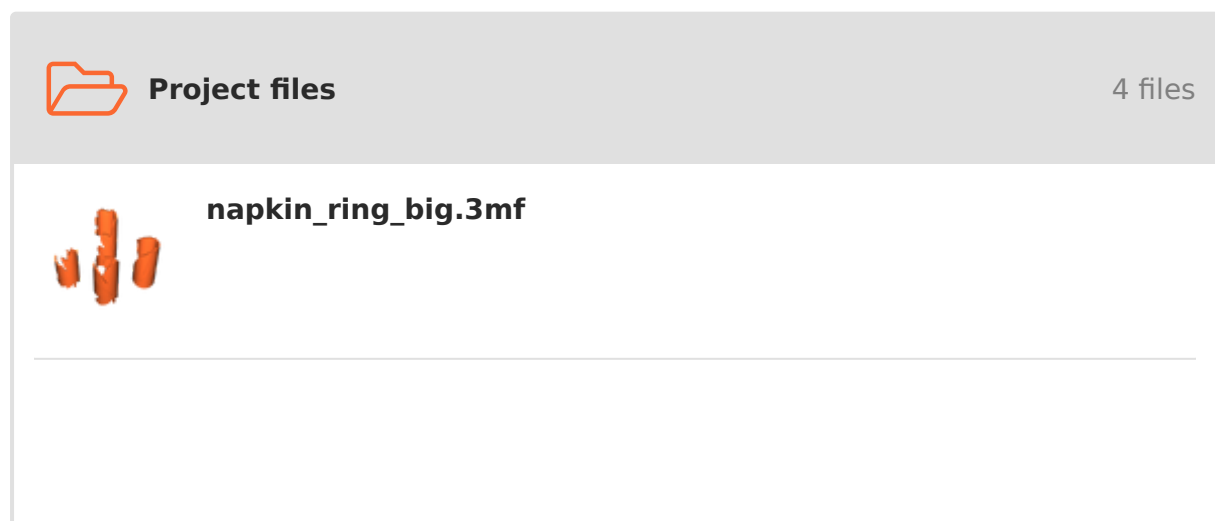
I printed all leaves standing (so that the axis is normal to the print bed level) with supports enabled. I also enabled the “snug” supports to avoid unnecessary supports on the side of the leaves. This printed quite nicely on my Ender 3 V2. At 0.2mm layer height the prints come out quite detailed. You can of course go down to 0.1mm layers, which should also print relatively fast and yield even more detail. I choose 3 perimeters (0.45mm) and 0% infill since the structure itself provides enough stiffness because of the shape. If scaled to a thickness beyond 3mm, infill will become necessary. In this case I would go to around 15%.

I also provided a Prusa Slicer project for all variants. There you can just add or delete the leaves you want/don't want.

If your printer struggles with bed adhesion I would advise to use a brim with all leaves, since the stem has quite a small contact area in the beginning of the print. But this was not a problem with my printer.

Sharp corners and edges can be lightly sanded after printing to make it easier to insert the napkins later on.

Model files





napkin_ring_small.3mf



napkin_ring_big_noveins.3mf



napkin_ring_small_noveins.3mf



Small - 20mm diameter

4 files



beech_leaf_napkin_ring_small.3mf



chestnut_leaf_napkin_ring_small.3mf



maple_leaf_napkin_ring_small.3mf



oak_leaf_napkin_ring_small.3mf



Large - 35mm diameter

4 files



beech_leaf_napkin_ring.3mf



chestnut_leaf_napkin_ring.3mf



maple_leaf_napkin_ring.3mf



oak_leaf_napkin_ring.3mf



No veins, small - 20mm diameter

4 files



beech_leaf_napkin_ring_small_noveins.3mf



chestnut_leaf_napkin_ring_small_noveins.3mf



maple_leaf_napkin_ring_small_noveins.3mf



oak_leaf_napkin_ring_small_noveins.3mf



No veins, large - 35mm diameter

4 files



beech_leaf_napkin_ring_noveins.3mf



chestnut_leaf_napkin_ring_noveins.3mf



maple_leaf_napkin_ring_noveins.3mf



oak_leaf_napkin_ring_noveins.3mf

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