Cura Preferences

<u>Shell</u>

The shell setting adjusts the thickness of outside walls (on the X/Y axis) of the model. You might want to modify the shell setting based on the material you are using. All plastics shrink as they cool.

Horizontal Expansion

	Search				
	Quality			~	
	Layer Height	ø	0.1	mm	
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	Wall Thickness		1.05	mm	
	Wall Line Count		3		
	Top/Bottom Thickness		0.8	mm	
	Alternate Extra Wall				
	Fill Gaps Between Walls		Everywhe	re 🗸	
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	Infill Density		20	%	
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	Filter Out Tiny Gaps				
	Print Thin Walls				
	Horizontal Expansion				
	 ☐ Init Amount of offset appled to all polygons in each layer. Postive values can compensate for too big holes; negative values can compensate for too small holes. 				

Close

Defaults

0 Z Seam Y

Seam Corner Preference 1 Z Seam Relative Ignore Small Z Gaps Extra Skin Wall Count

C Prefer General Settings

Z Seam Alignment

Sometimes there will be a visible mark on the surface of your print at the start of a layer. When these marks are all aligned, they form a visible line called the "Z Seam". Z Seam Alignment allows you to choose where each new layer in the Z direction starts in order to eliminate the appearance of a Z Seam on the exterior of your model.





Fill Gaps Between Walls

Because your 3D printer includes a fixed size nozzle, you may encounter issues when printing very thin walls that are only a few times larger than the nozzle diameter. For example, if you were trying to print a 1.0mm thick wall with a 0.4mm extrusion width, you may need to make some adjustments to ensure your printer creates a completely solid wall and does not leave a gap in the middle.



Alternate Extra Wall

The Alternate Extra Wall setting adds strength to the outer walls of the print without taking the time required to add additional shells on every layer of the print. Alternate Extra Wall will add one extra interior shell to every other layer. For example, if your print is set for two shell widths Alternate Extra Wall will add an extra one on every odd numbered layer.



Number of slow layers

Number of Slow Layers will slow down the printing of the bottom layers and defines the number of layers it will take the printer to reach the set print speed. The speed, based on the initial layer speed and print speed, will linearly incline over the number of layers specified in the Number of Slow Layers setting. A higher value will decrease the chance of your print warping, but this setting can also increase your print time significantly.

You can find more here

https://ultimaker.com/en/resources/21932-mastering-cura

https://ultimaker.com/en/resources/20422-cura-support-settings