3D PRINTING GUIDE

Fillamentum Vinyl 303

(Polyvinyl chloride)



Printing temperature: 215 – 230 °C	Heated bed surface: PEI plate, mirror / glass
Heated bed temperature: 80 – 90 °C	Adhesive: Magigoo, PVA based glue
Speed: 40-60 mm/s	Raft / skirt / brim: Brim 10 mm / raft
Part cooling fan: 0–50 %	Heated chamber / enclosure: recommended

Adhesion	- You can print Vinyl on standard PEI build plate. We recommend use brim, because Vinyl can shrink from build plate due to poorly cleaned build plate.
Cooling	- For standard maximum part cooling fan speed is 15 % from 10 th layer. If you are printing difficult parts / models with overhangs and supports, you can go up to 100 %. Be careful with the part cooling fan speed – too much flow can decrease bonding of layers.
Printing	 Printing bridges with Vinyl could be challenging, therefore, we recommend using supports as it really helps and avoids print fails. Stronger parts can be achieved by using temperature around 230 °C and part cooling fan off, where layers adhere more. Printing very small features is hard. It is recommended to avoid it in the models, because printing small detail can cause clogging due to small flow off material.
Storing	- Airtight bag with desiccant.

Avoid
clogging- First heat up the bed, after temperature stabilization heat up the nozzle.
Nozzle temperature shouldn't be higher than 230 °C due to thermal sensitivity. Reduce material delay in
the nozzle, at elevated temperatures keep feeding or set removing of filament immediately after printing
is finished. The bed must be well calibrated – low level of nozzle may cause low flow and clogging. Clean
the nozzle at the printing temperatures or lower – higher temperatures would cause clogging. Suitable
material for cleaning nozzle is PLA Crystal Clear or Nylon FX256. Lowest recommended layer height is
0.15 mm.

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