## **Raise3D Premium PVA Practice Guide**

## Summary

Raise3D Premium PVA is a PVA-based support material that can be used for PLA-based, TPU-based, Nylon-based and PETG-based modeling materials.

## **Recommended Printing Conditions**

Recommended printing temperature (°C)	220 - 230
Recommended printing speed (mm/s)	45 - 90
Build plate surface	BuildTak® with PVA (glue stick) coating
Build plate temperature (°C)	Room temperature - 70
Model cooling fan	Not sensitive – use the settings for the
	modeling material

## **Printing Guidelines**

- 1. When a raft is used, always print the raft with Raise3D Premium PVA, for the raft-model distance ("air gap"): 0 mm.
- 2. Support settings (example in IdeaMaker):
  - Recommended support density: 20% 30%.
  - Support infill angles: 0° and 90°.
  - Dense support layers: 3 5.
  - Dense layer infill: 100%.
- 3. Ooze shield outlines: set to 1-3.
- 4. Upper/lower vertical separation layers: set to 0.
- 5. Maximum overhang angle: 0°.
- 6. Support-removal procedure:
  - Place the printed model with support in water bath at room temperature
  - In 2-5 min the support should turn into a "gel-like" state. You can take the model from the bath and remove support as much as possible.
  - If this process can't get good result, you better heat the water up to 40°C to accelerate the process and repeat again



- Place the model (with residual support) back to the water bath, then change the water every 2 -3 hours (repeat 2 -3 times), the support should completely dissolve. Mechanical stirring and ultrasound agitation can be used to further expedite the process.
- If this process can't get good result, you better heat the water up to 40°C to accelerate the process and repeat again

\*The material described above is still developmental and meant to be used for experimental testing only. It may not represent the properties and quality of the final product.