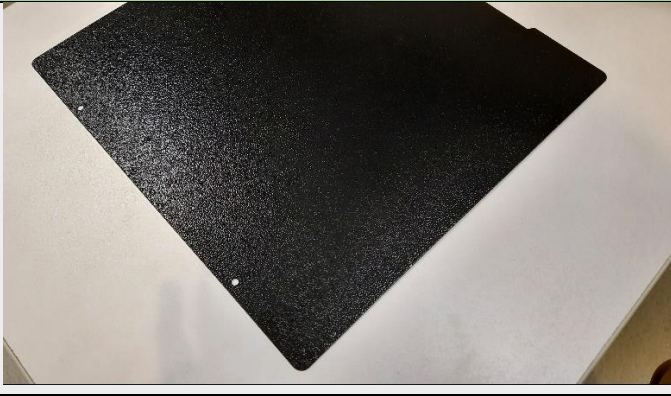


# TESTING REPORT

Used Machine: Prusa 1

Used Filament: Filamentum PLA blue

PEI Sheet - pasted Spring Steel Sheet	Powder coated - <b>Structured</b> Spring Steel Sheet	Powder coated - <b>Textured</b> Spring Steel Sheet
		

Isometric views – Long shot



Isometric views – Close shot

## First Layer Calibration and setting up name of the sheet



Smooth1 = -0.630 mm



Str rnd = -0.600 mm



Tex rnd = -0.550

## Temperature Comparison (Bed Vs. Sheet)



60deg -> 49deg



60deg -> 57deg



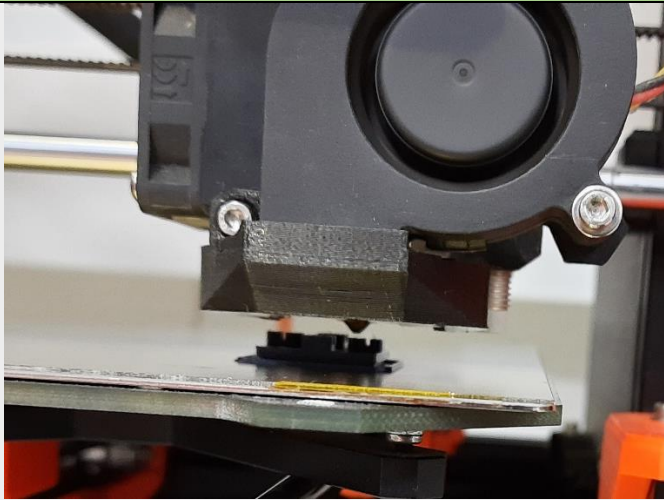
60deg -> 59deg



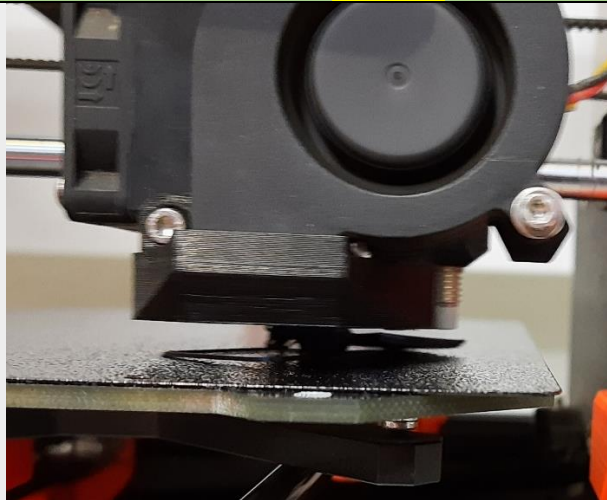
## Sticking Test – Center Print



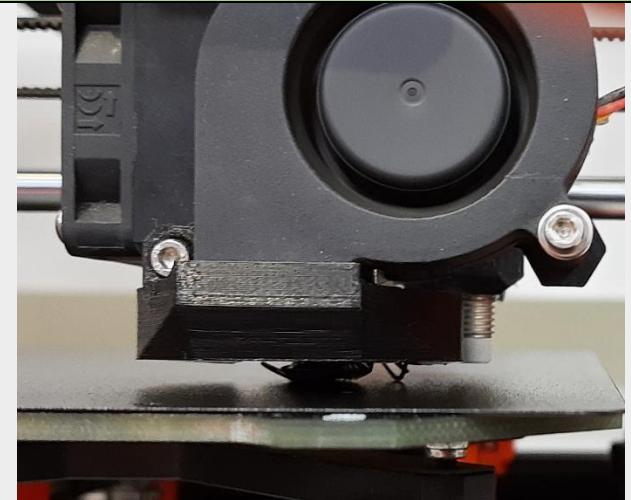
## Sticking Test – Corner Print



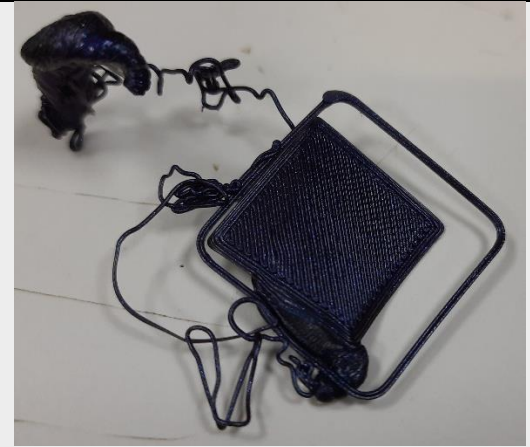
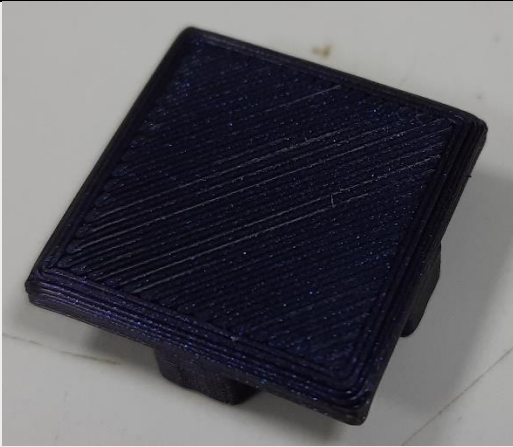
Sticked well



First layer sticked after some layer gone.  
Tried two times and it was non-sticky.



First layer sticked after some layer gone.  
Tried two times and it was non-sticky.



Printed sample was 2020 End Cap

### Observations:

- **Spring steel** property is good.
- **Powder coating** is good.
- **Surface finish** of the printed part is really good.
- More surface area printable with less height may be printable.
- **Sticky property** is not found during hot state as well as normal state.

### Further Steps:

- Testing with **Glue Stick** for PLA filament.
- Testing with PETG filament (mainly on structured plate) without Glue Stick.

**Date:** 01-12-2020

**Report by:** Johnson Rajendran (127629)