**2022-03-16**

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| What is this experiment for? | Triplets v5: blue tip – slow velocities |

# **Checklist**

Position Tiles

Turn Vacuum off

Put measurement cap on

Turn Camera light off

Measure tiles

Put cap off

Turn Vacuum on

**Glue:**

|  |  |  |  |
| --- | --- | --- | --- |
| Start Time: |  |  |  |
|  | Measurements / Parameters to test | Stopwatch time | Comments |
| Glue Temperature: | 60°C |  |  |
| Weight Glue: | 10.06 g |  |
| Weight Hardener: | 0.748 g | **Start Stopwatch** |  |
| Glue Temperature: | 39 °C | 00 |  |
| Degas Pictures taken after X min: | 2,5,7,10 min | 00 |  |
| Glue Temperature: | 28.6 °C | 00 |  |
| Filling Syringe |  | 12:45 |  |
| Testing Dispenser |  | 15:00 | good |
| Leveling Procedure |  | 16:00 | Dispenser didn’t fit properly in cnc -> glue was on dispenser -> cleaned it; screw fell on yellow tiles |
| Start Triplet 1 | V=3.3 mm/s | 26:18 | Calibrated anew -> bad leveling restart 31:30 -> no easy time dispensing glue-> calibrated new => leveling needs a remake |
| End Triplet 1 |  | 33:50 |  |
| Start Triplet 2 | V=3.8 mm/s | 36:23 | Brown triplet, runs smoothly now but glue remains at tip after gluing edge |
| End Triplet 2 |  | 37:25 |  |
| Start Triplet 3 | V=4.5 mm/s | 37:45 | Yellow triplet |
| End Triplet 3 |  | 38:42 |  |
| Turn Vacuum off |  | 39:30 |  |
| Put measurement cap on |  | 0 |  |
| Start measurement (Repetion: x24) |  | 45:00 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| after 2 min | After 5 min | after 7 min | after 10 min |

## Results

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| --- | --- |
|  | **Triplet Description**  - Blue Triplet  - blue tip: ø=0.41mm  - v = 3.3 mm/s  - ϕ=0.01245cc/s  Vac release right after gluing |
|  | **Triplet Description**  - brown Triplet  - blue tip: ø=0.41mm  - v = 3.8 mm/s  - ϕ=0.01245cc/s  Vac release right after gluing |
|  | **Triplet Description**  - yellow Triplet  - blue tip: ø=0.41mm  - v = 4.5 mm/s  - ϕ=0.01245cc/s  Vac release right after gluing |

## Analysis Results:

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