

Polymer Laboratory Weekly Meeting Summary – 25.04.2024

➤ **General information:**

- Reminder: put Roland as a signatory of each order for the lab. When your EDH doc is ready, click on “submit”. A small window open, on the bottom left, under “transfer to”, select Roland’s name with the “Add button”.
- Evacuation of a container of chemicals scheduled for May 3.
- Idea to make a small library upstairs for the future layout of the lab: approved.
- Small photobooth available with white or black background for taking pictures.
- TO testing machine is now equipped with a displacement sensor.

➤ **Operation & Services:**

- 12T Technical Development Program (TDP), development of internal splice: impregnation test on a FRESCA cable sample.
- 2nd BORIS tube: components receive, ready to be assemble.
- Manufacture of test plate molds, used for DAMISOL resins as part of the quality control of two batches of identical resin for the manufacture of new magnets for the PS BOOSTER.
- Request for an adhesive with high thermal conductivity and high viscosity, work in progress.
- 3DP :
 - Clamp shells
 - Electronic protection boxes
 - TREFLE: production test on going with ABS

➤ **Projects (R&D):**

- Christian will send two boxes for gamma radiation up to 2MGy
- Chemical ageing tests on thermoplastic polyimide-insulated wires.
- Electrical tests on samples of 3D-printed polymers, Composites and Polyimide.
- Mechanical tests on 3D-printed polymer samples.
- Study on impact testing at different temperatures.
- Testing of mould impregnation process using wax.
- DMA analysis on insulating materials at cryogenic temperatures.