

## Polymer Laboratory Weekly Meeting Summary – 02.05.2024

### ➤ **General information:**

- Sebastien order 20kg of MY740 resin for MSUT mix, to use for BORIS Tube and MQXF cable impregnation.
- Ticket to be created to connect the climatic chamber to the extraction system.
- Tickets have been created for the external and internal storage area (upstairs and outside in the recess).
- Next week meeting, discussion regarding the group open days. If you have ideas, do not hesitate to share them with us.

### ➤ **Operation & Services:**

- Impregnation of test samples for NCM using DAMISOL 3420 in progress.
- Manufacturing of silicone (RTV-4250S) rod for LMF section.
- Impregnation of MQXF cable (Kirtana) with MSUT mix next week.
- 3DP:
  - TREFLE: tuning of the printing sections for large batch of parts.
  - PROTODUNE: the box scale 1:1 in PETG to be tested in LN2 next week.
  - SLA: printing of various components.
- BORIS Tube: the first prototype is at MME for a radiography, results will follow.
- Manufacturing of two plates, one in VPI and the other one in an open mould. Followed by a DMA test to see if there is a different (effect of oxygen?).

### ➤ **Projects (R&D):**

- 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.