

Polymer Laboratory Weekly Meeting Summary – 06.06.2024

➤ **General information:**

- MSC Open Days: rehearsal next Thursday. For those who will present, please prepare what you are going to say and use for the presentation.
- Presentations: “3-point bending short beam test of PEEK FDM printed at SMI 2” & “PEEK vs. xPEEK147” (J. Vielhauer) and “3D Print Lyon 2024” (J-S. Rigaud & S. Clément).

➤ **Operation & Services:**

- Protodune tube has arrived at the lab to fix a leak issue
- Production of souvenirs for CMS
- The production of silicone pins for the LMF section is almost finished
- Test of a new mold with a self-release coating for impregnation
- Impregnation test for NCM
- 3D Printing:
 - New mold printed for the tests to solve the water leak in the PB BOOSTER
 - Production ongoing of tooling for CRAB cavities

➤ **Projects (R&D):**

- Viscosity tests on wax samples
- DC voltage breakdown tests for study on quench heater insulation materials
- Mechanical (short-beam) tests on 3D printed polymer samples
- Chemical ageing tests on thermoplastic polyimide-insulated wires
- Production and DMA characterization of resin plate samples for ITER insulation bonding study