

MSE shared-use equipment

Sample Preparation

- Semi-automatic polishers (Struers)
- Heating mounting press
- Fume hood
- Hot plates
- Spin coater
- 3D printer (Prusa)

Processing

- 1100°C box furnaces (3)
- 1100°C tube furnace
- Rolling Mill (Ruesch)
- Plasma cleaner

Microscopy

- Inverted microscope with BF, DF, DIC, POL, and Grain Analysis (Leica)
- Optical microscopy with digital camera (Olympus)

Materials Testing

- Unilateral tension/compression testing system (MTS)
- Vickers hardness tester (Leco)
- Rockwell hardness tester
- Rheometers (Anton Paar MCR92 and MCR 302)

Materials Analysis

- Contact angle goniometer (Ramé-Hart)
- UV-VIS NIR Spectrophotometer (Perkin Elmer Lambda 950)
- X-Ray Diffractometer (Malvern Panalytical- Aeris)
- Raman Spectrometer (Horiba)
- DSC (ThermoFisher)
- TGA (Perkin Elmer)