



3D Printing Technical Service

ADDITIVE MANUFACTURING OF THERMOPLASTIC AND COMPOSITE MATERIALS

KEY WORDS

3D PRINTING,
THERMOPLASTICS,
PROCESSING

DESCRIPTION

The 3D printing service offers the fabrication of parts, prototypes, or specimens using fused filament deposition (FFD) technology, suitable for conventional thermoplastic materials, recycled materials, or experimental formulations developed in the laboratory. The system allows for precise control of extrusion and heated bed temperature, printing speed, layer height, and geometry, guaranteeing high reproducibility and dimensional resolution. The service includes material preparation, adjustment of printing parameters, and delivery of results in digital format, along with labeled samples and recorded process parameters.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Fused filament deposition 3D printers
- Extrusion and heated bed temperature control
- Print control and computer-aided design software

APPLICATIONS

- Manufacturing of reproducible parts, prototypes or specimens
- Optimization of printing parameters and validation of processability
- Evaluation of interlayer adhesion and surface quality
- Printing of recycled materials or experimental formulations

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