

PaGe_005_Pressing_MgO-C_BiomassPellets_120MPa

Date: 2026-08-03

Tags: MgOC Pressing

GRK2802_DFG_461482547

Status: Success

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and Composite Materials

Objective:

- Production of bar-shaped samples with dimensions of $150 \times 25 \times 25 \text{ mm}^3$ processing the raw material mixtures [Processing - PaGe_002_Mixing_MgO-C-NFL](#), [Processing - PaGe_003_Mixing_MgO-C-WP](#), and [Processing - PaGe_004_Mixing_MgO-C-SFSH](#)

Experimental setup:

- Utilising the [Instrument - RUCKS KV 270 \(UniaxialPress\)](#) with bar-shaped mould and applied pressure of 120 MPa

Procedure:

1. Filling of approx. 300 g of each raw material mixture in the mould
2. Automatic pressing program
3. Removal of pressed samples

Results:

- Bar-shaped samples with dimensions of $150 \times 25 \times 25 \text{ mm}^3$ for further processing

elabExperiment Metadata - Contextualize data (storage structure, formats, and how the stored data correspond to experimental activities)

Format

Format of the generated raw, (processing) meta, processed and result data

none

Coverage

Fraction/part of the experiment contained in the generated raw and result data

none

Description

Brief description to understand and navigate the generated raw, processed, meta and result data of the conducted experiment

Pressing of bar-shaped samples with dimensions of 150 x 25 x 25 mm³ for further processing

Contributors

Persons who contributed to data generation (forename name; forename name; etc.)

Patrick Gehre; Magzhan Kapessov

Linked experiments

Processing - [PaGe_002_Mixing_MgO-C_GraphiteNFL](#)

Processing - [PaGe_003_Mixing_MgO-C_WoodPellets](#)

Processing - [PaGe_004_Mixing_MgO-C_SunflowerSeedHullPellets](#)

Linked resource

Instrument - [RUCKS KV 270 \(UniaxialPress\)](#)



Unique eLabID: 20260803-e9a6c121eaba7931092c57003c3bcfe1749ea005

Link: <http://elabftw.chemie.tu-freiberg.de/experiments.php?mode=view&id=6248>