

Welcome

Kia Ora

Bioplastics and Biocomposites Innovative Building Blocks of the Emerging Bioeconomy

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IfBB
Institute for Bioplastics
and Biocomposites



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Institute for Bioplastics and Biocomposites



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www.ifbb-hannover.de

- Bioplastics and thermoplastic composites
 - Material development and characterisation
 - Process optimisation (compounding, injection moulding, up-scaling)
 - Biodegradability of bioplastics
 - Recycling
 - Life cycle assessment
- Semi-Industrial plastic technology centre
 - Different injection moulding machines
 - Compounding extruder
 - Flat-film extruder
 - Extrusion blow-moulder
 - Different analytical equipment



Source:IfBB



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- Fraunhofer is Europe's largest application-oriented research organization
- Application Center for Wood Fiber Research (HOFZET)

- Natural fibers

- Surface modification
- Fiber analysis

- Technical (hybrid) textiles

- Bio-(hybrid) composites
- Short fiber-reinforced composites
- Organic sheets
- Recycling



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Jute fabric



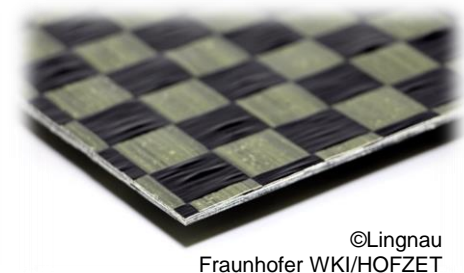
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Moulded components



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Various laminates



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Aramid/carbon fiber
reinforced epoxide

Institute of Machine Tools and Production Technology



www.tu-braunschweig.de/iwf

- **“Sustainable Manufacturing & Life Cycle Engineering”** (Prof. Herrmann)
- Research fields:
 - Integrated Computational Production
 - Life Cycle and System of Systems Engineering
 - Circular Economy and Industrial Symbiosis
 - Factories of the Future
 - Sustainable production technologies
- Member of 3 LabFactories:
Battery LabFactory Braunschweig (BLB),
Open Hybrid LabFactory (OHLF)
Center of Pharmaceutical Engineering (PVZ)



Source: TU Braunschweig



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www.vaude.com

- German company, ranking among Europe's leading mountain sports brand names
- Offering functional, environmentally-friendly products made from sustainable materials, certified by the Green Shape label
- VAUDE has experienced successful growth showing that maintaining a balance between ecological and social factors makes economic sense



Source: VAUDE



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