

# A small step for you. A giant leap for your customer.

acForm®. Groundbreaking binder technology for curved and deeply structured wood fiberboards.



 **BASF**

We create chemistry

# acForm® binder technology

Enabling 3D moldable fiberboards (3MF)

The new BASF resin acForm® represents the first dispersion-based binder worldwide for the blowline process and enables the production of 3D moldable wood fiberboards. These boards are perfectly suited for shaping and embossing technologies, adding a new dimension to the furniture and interior design industry.

## acForm® benefits for board producers

- processability on existing blowline equipment
- high productivity of board production
- long storage stability
- safer working environment due to no added formaldehyde and low levels of VOCs
- compatibility with additives (e.g. water repellants, pigments, flame retardants)

## 3MF benefits for molders and OEMs

- consistent quality and storability of wood fiberboard
- short molding cycle times
- new design options for surface and shape
- superior surface quality of molded parts enables savings for finishing technologies
- safer working environment due to no added formaldehyde and low levels of VOCs
- high degree of wood utilization and scrap reduction
- recyclability like other wood-based products



# acForm<sup>®</sup> binder technology

## Enabling 3D moldable fiberboards (3MF)

### Properties

BASF's acForm<sup>®</sup> enables the production of a new wood-based material for the furniture industry. Specifically, it enables the production of a thermoplastic composite, which is storage-stable and suitable for production on existing fiberboard production lines.

In contrast to standard thermoset boards, this new wood-based material enables a post-moldability and surface structuring of the composites. This can be achieved in short cycle times by using standard furniture molders' equipment. The increased moldability of the composite enables new design options.

The 3D moldable fiberboards can be processed into traditionally molded parts such as seat shells, seat backings, and other curved or deeply structured components. As formaldehyde is not added to the binder system, the working environment is further improved. Finally, BASF offers the possibility of producing acForm<sup>®</sup> based on the Biomass Balance Approach, thus enabling the 3MF to be a 100 % bio-based raw material.

### Applications

- shaped furniture (e. g. chair parts)
- wall panels
- furniture fronts
- doors
- sports equipment (e. g. yogaboard)
- wherever you want to realize extraordinary designs with wood-based materials



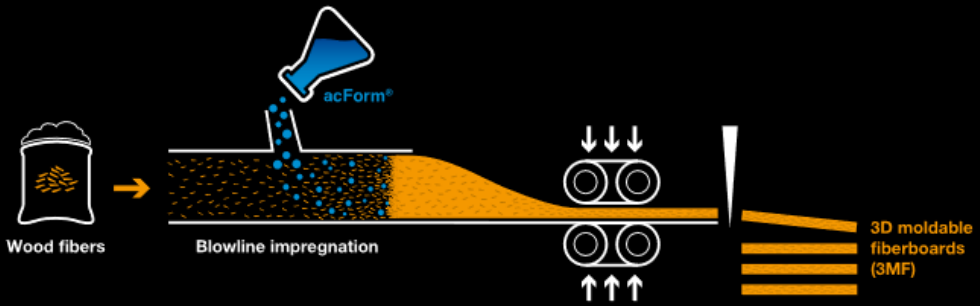
# Shaping wood composites with acForm®

BASF's binder technology for new designs, with efficient production on standard equipment

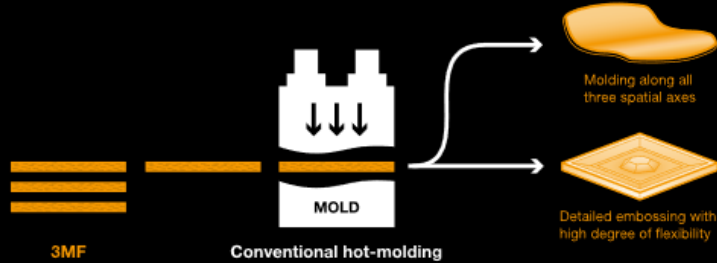
**1 acForm®**  
Water-based binder without added formaldehyde.

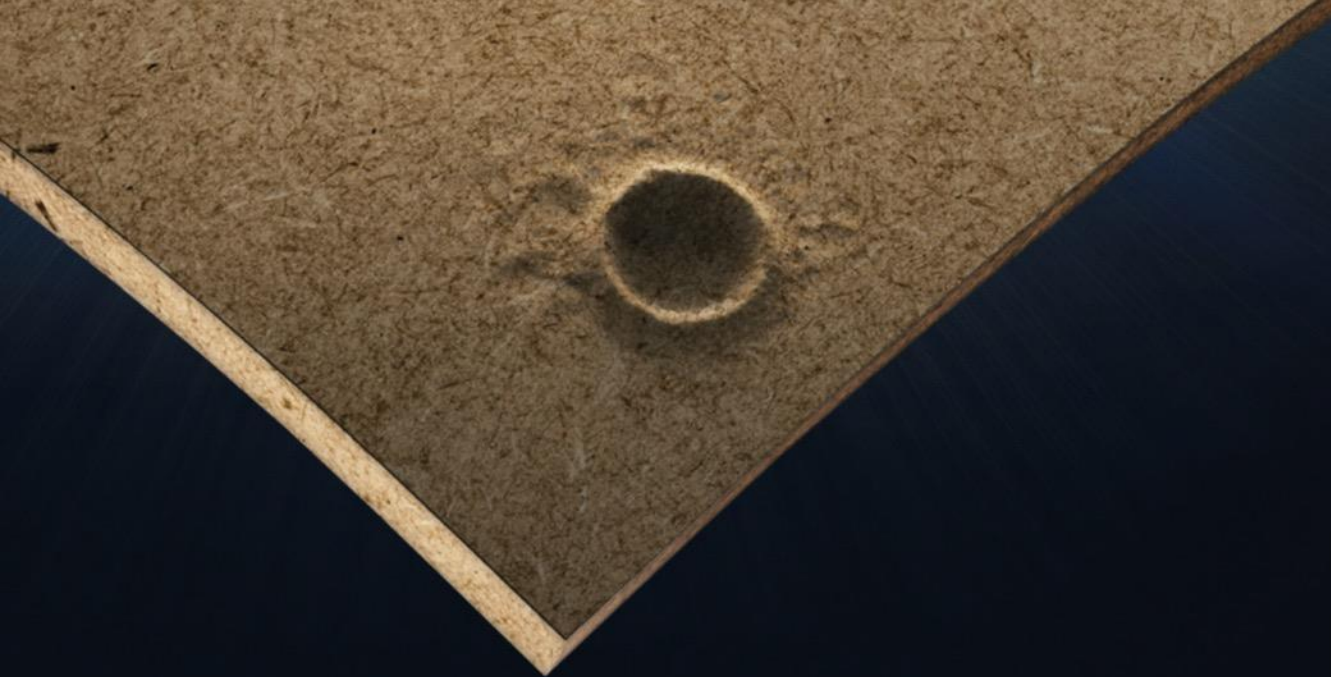


**2 ...enables 3D moldable wood fiberboards (3MF)**  
3MF can be produced on existing fiberboard production lines.



**3 ...for curved and deeply structured wood composites.**  
Conventional hot-molding turns 3MF into 3D wood composites.





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Enter a new world of design freedom:  
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explore the opportunities of acForm® virtually.



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