

# Let's shape the future with upcycling

BASF's fiber bonding technology  
enabling circularity



# Guitar

## Transforming residuals into instruments

Along with our partners at ChopValue, DenimX, ecobrain, Richter instruments, we developed a process to upcycle coffee grounds, denim and chopsticks into new materials which are suitable to build electric guitars.

## Giving the guitar its shape

BASF's binder acForm® enables the molding and embossing of guitar and bass bodies. The waterbased binder does not contain isocyanates nor added formaldehyde enabling a safer workplace.

## Protection through reduction

Not only are the cooperation partners able to prevent spent coffee grounds from being incinerated, but they contribute to CO<sub>2</sub> savings by extending their life cycle. Furthermore, using the reclaimed chopsticks instead of fresh wood in the production of guitars reduces the pressure on our forests.



## ➤ Contact

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**BASF**  
We create chemistry

# Facts Guitar

## Materials

- spent coffee grounds, denim and chopsticks

## Binder

- acForm® Power 2889, Acrodur® 950L

## Applications

- musical instruments

## Cooperation partner

- ChopValue, DenimX, ecobrain, Richter instruments

## Potential savings

- wood-based products or other conventional non-wood products



Model electric guitar "Electra"



Water-based and sustainable at heart. BASF's dispersion- and water-based binders are also available as a biomass-balanced product.

# Fiberbonding technology for sustainable upcycling

## Process and exemplary materials

- 1 Waste
- 2 Shredding
- 3 Impregnation
- 4 Molding/Forming
- 5 Board
- 6 New Product

