



Oskar Lehmann GmbH & Co. KG
Plastics processing, mold making

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Bio-plastics

• BIO-HDPE

- ◆ 100% renewable resources: Ethanol based on sugar cane
- ◆ fewer CO₂ emissions compared to the manufacture of crude oil based HDPE`s of comparable quality
- ◆ Colour: natural (milky white), colour batch: possible

• CAB

Cellulose acetate butyrate

- ◆ consists of cellulose, butanoic acid, acetic acid
- ◆ one of the oldest bioplastics market launch in 1946
- ◆ includes approximately 10 % plasticiser
- ◆ poor stress crazing and cracking, self-polishing (moulded recess of Swiss knife)
- ◆ Colour: translucent, colour batch: possible

• PHA+Wachs

- ◆ 100% renewable resources: fermented sugar + wax from the leaves of the Carnauba palm
- ◆ food-safe, compostable, fewer CO₂ emissions, UV-resistant
- ◆ similar to ABS, low shrinkage
- ◆ Colour: natural (cream white), colour batch: possible

• PLA

Polylactic acids, Polylactide

- ◆ made of sugar and starches with the aid of lactic acid bacteria
- ◆ high stability, transparency, clarity and gloss
- ◆ biodegradable
- ◆ Pellet colour: transparent, colour batch: possible

• Recycling ABS

Post Consumer Kunststoff

- ◆ made out of electrical devices and household appliances
- ◆ 80% less energy and fewer CO₂ emissions compared to the manufacture of new materials
- ◆ Pellet colour: black, colour batch: not possible

• **Recycling PP**

Post Consumer Kunststoff

- ◆ made out of electrical devices and household appliances
- ◆ 80% less energy and fewer CO2 emissions compared to the manufacture of new materials
- ◆ Pellet colour: black, colour batch: not possible

• **Bio-TPE**

Thermoplastic elastomers

- ◆ consists of 100 % biodegradable polymer
- ◆ consists of up to 40 % renewable resources
- ◆ excellent resistance against atmospheric conditions and sweat
- ◆ due to different shore hardnesses ideal for 2-component-products
- ◆ Colour: natural, colour batch: possible

• **WPC**

Wood Plastic Composite

- ◆ PP, PE or PS filled with wood flour
- ◆ At least 20% of wood content bio
- ◆ Crude oil requirement reduced by natural fibre extenders
- ◆ Natural wood look
- ◆ Pellet colour: light brown, colour batch: possible

These specifications are non-binding. The properties can vary depending on the manufacturer, type, or use of fillers.

This site has been generated on 22.05.2019 | 03:21:51 o'clock.