bioORMOCER®
Combination of inorganic, organic and biomaterial leads to bioORMOCER®

- Use of different biopolymers possible (e.g. chitosane, cellulose)
- Biodegradable but fossil based polymers as further option (e.g. polycaprolactone-triol PCL-T)
- Variation of the inorganic, organic and bio part is possible
- The duration of biodegradation time and other properties can be influenced by the composition
**Biodegradability**

BioORMOCER® is biodegradable under standard composting conditions according to ISO 14855-1:2013 (Determination of the ultimate aerobic degradability of plastics under controlled composting conditions – Method by analysis of released carbon dioxide). The degradation rate is adjustable via the composition of the barrier lacquer.

**Barrier**

Barrier performance (oxygen, water vapor, fragrances, aroma) suitable for typical applications in food, cosmetics and some pharmaceutical packaging.

**Advantages**

Your way to new compostable packaging materials. Also suitable for fossil based polymers, e.g. to enable sorted recycling.
**BIO ORMOCER®**
- Combines the advantages of ORMOCER® with biodegradation and/or bio-based materials
- Has excellent performance in combination with biodegradable polymers or paper

**PROPERTIES**
- High transparency
- Processable at moderate temperatures (< 130 °C)
- Very good adhesion to almost all types of substrates
- Very good compatibility with other coatings and materials
- Suitable for standard industrial processes
- Printable

**POSSIBLE ADDITIONAL FUNCTIONS**
- Time-controlled and adjustable biodegradability
- Antimicrobial activity
- Barrier properties against (water vapor, oxygen, flavors, plasticizers)
- Abrasion resistance
- Anti-adhesive
- Antistatic