



Biograde®

Based on cellulose BIOGRADE® has been especially designed for injection moulding applications. BIOGRADE® is predominantly composed of natural resource materials and does not contain starch or starch derivatives.



BIOGRADE® C 7500 is a cellulose blend which is particularly appropriate for injection moulding applications. Consisting of a high amount of natural resource materials along with a Vicat A temperature > 100 °C it has an excellent heat resistance compared to other bioplastics.

BIOGRADE® C 7500 can be processed on standard injection moulding machines equipped with a general purpose screw. Examples of moulded products include ball pens, cosmetic pencils & bottles. If hot runners are used they should be modified as bioplastics tend to degrade if exposed to long dwell times and high temperatures.

BIOGRADE® has the following advantages:

- High content of natural resource materials
- Excellent heat resistance
- Injection mouldable on conventional injection moulding equipment
- Flat sheet / film suitable for thermoforming on conventional deep drawing machinery
- Properties comparable to ABS: rigid and translucent depending on grade
- Food contact approved
- Biodegradability certified by independent organisations



BIOGRADE® C 9550 is a white cellulose blend particularly appropriate for injection moulding. Composed of a high amount of natural resources along with a Vicat A temperature > 100 °C it has an excellent heat resistance. Commonly moulded into disposable cutlery it is also possible to process into many other more complex products on standard injection moulding machines equipped with a general purpose screw. If hot runners are used they should be modified as bioplastics tend to degrade if exposed to long dwell times and high temperatures.



BIOGRADE® C 6530 is a further development of BIOGRADE® C 9550 and retains similar mechanical properties by using a combination of special additives and a high percentage of fillers. BIOGRADE® C 6530 is suitable for the production of injection moulded rigid parts particularly those with thin walls and long flow paths. This material can be used to produce items such as heat-resistant cups and electrical articles.