

# iic packaging

## SUGARCANE BASED THERMOPLASTIC

**Bio-Polyethylene (ethanol based), bio-based**

Injection molding grade drop-in biopolymer with a BBC (biobased carbon content) of 94% based on ethanol from sugarcane



### MATERIAL PROPERTIES

Material shows very good chemical properties and is resistant in a low acidic environment. It comes with a low CO<sub>2</sub> footprint (0.256 kg CO<sub>2</sub> per kg). It has a good rigidity and hardness

### APPLICATION

This material is commonly used in basins, caps, cosmetic packaging, pails and buckets, pharmaceutical product packaging, thin wall houseware and thin wall parts

### INVESTIGATION

Material shows an average standard deviation respectively variation at the beginning. After examining the part quality the flow behaviour is optimized by increasing shear rate and decreasing shear stress to lower the viscosity. This leads to reduced variations and increased surface quality of the molded parts

