



Driven by expertise

Sukano Biopolymers MB Portfolio Bio-PBS

MKT | Bioplastics



**Fibers &
Filaments**



Sheets



Biopolymers



**Bottles &
Containers**



**Thin films
& coatings**



**Thick /
Rigid films**

Sukano

combines proven quality
with latest innovation
and industrial expertise
in six fields of applications



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BIO BASED PBS

Home compostable MB portfolio

Daniel Ganz / Alessandra Funcia

Bio-PBS MB

Both bio-based and biodegradable plastic



Derived from natural resources (sugarcane, cassava and corn), BioPBS **decomposes into biomass, carbon dioxide and water** in ambient condition (30°C)

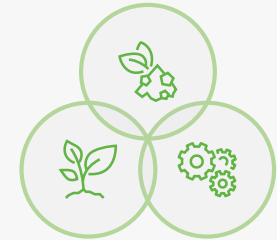


Products made from BioPBS **can be disposed of along with organic waste**. It is compostable at open-air landfill site in ambient condition (30°C), without requiring a specialized composting facility



This advanced MB based material can be processed using the same machines currently available in the field with **no need of additional investment**

Renewable



Ambient Compostable

Excellent Processability



Food Contact Approved

BioPBS MB carriers are listed in U.S.FCN No.1574, comply with OM-6 in EU 10/2011 and JHOSPA. Please consult our RC letter for detailed information.

High Service Temperature

Applications made by BioPBS MB can withstand up to 100°C. BioPBS MB can be used for hot beverage cups, boxes, and utensils for freshly cooked food

Excellent Heat Sealability

Having the same level of seal strength as conventional non renewable based-plastic, BioPBS MBs provide the same performance and lower waste disposal costs

Easy to compound with other Bioplastics

Compounding BioPBS MB with other types of biopolymer can enhance both properties to a greater mechanical and thermal performance

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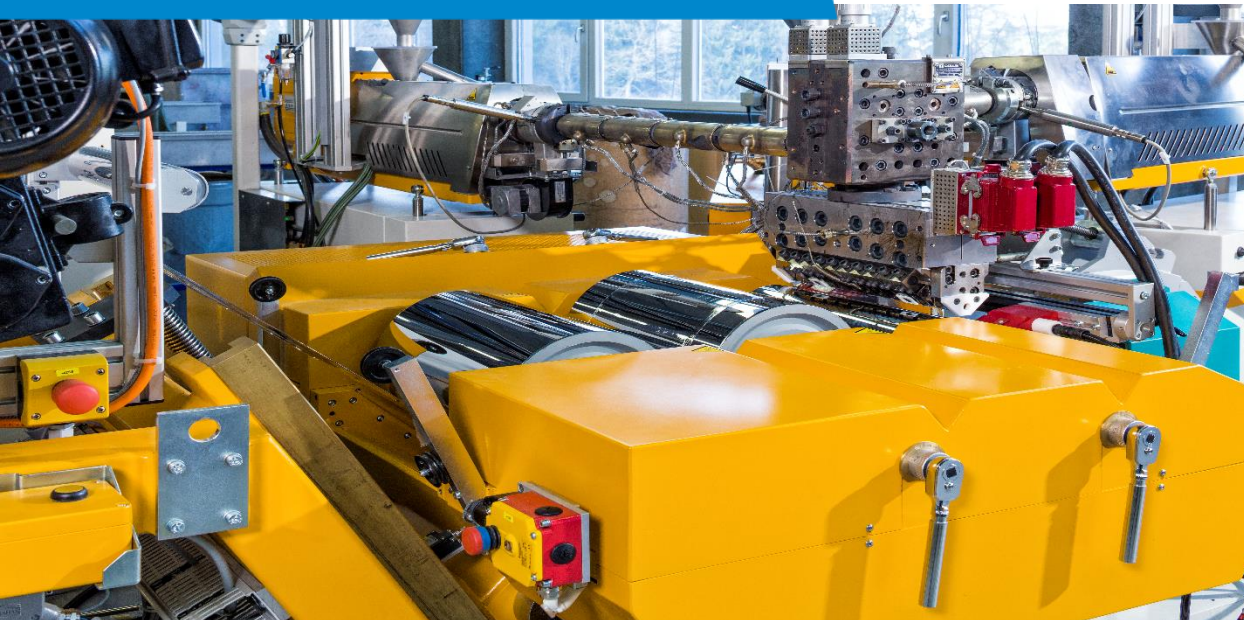
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Coex Film Line

Sukano Global Technical Center

Labstretcher



**REPLICATING OUR
CUSTOMERS PROCESS
CONDITIONS FOR
PRODUCT
DEVELOPMENT
PERFORMANCE
ACCURACY**

COEX film line

Evaluation of the extrusion
performance of the materials

Labstretcher – KARO IV

Validation of optical (color,
opacity, gloss) and physical
(density, mechanical)
properties of the film

BENEFITS in a NUTSHELL

Speed to market

Product offer feasibility

Higher development

performance accuracy

EXTRAS

Benefits that can be expected but
not always guaranteed: printability
of the film including different
levels & types of additives; COF;
surface dyne levels



Driven by expertise

We've been investing in a powerful R&D analytical laboratory and pilot plant, providing industry leading capabilities to quickly respond to our customers' greatest demands and flexibility requirements



TECHNICAL CENTER

Single and twin screw extruders

Single and Coex film line

Thermoformer

Injection molders, including set of molds for test parts

Powder mill, pilot scale

Filter pressure tester

Dessicant dryers

Biaxial tenterframe



ANALYTICAL CENTER

Color measurement, computer aided formulation

Spectroscopy and thermoanalytics: UV, NIR, FTIR, DSC, TGA

Muffle ovens for ash content measurement, MFR tester, IV-measurement

Haze, gloss, COF, roughness & electrostatic measurement



Increasing
productivity



^
Problem
solving



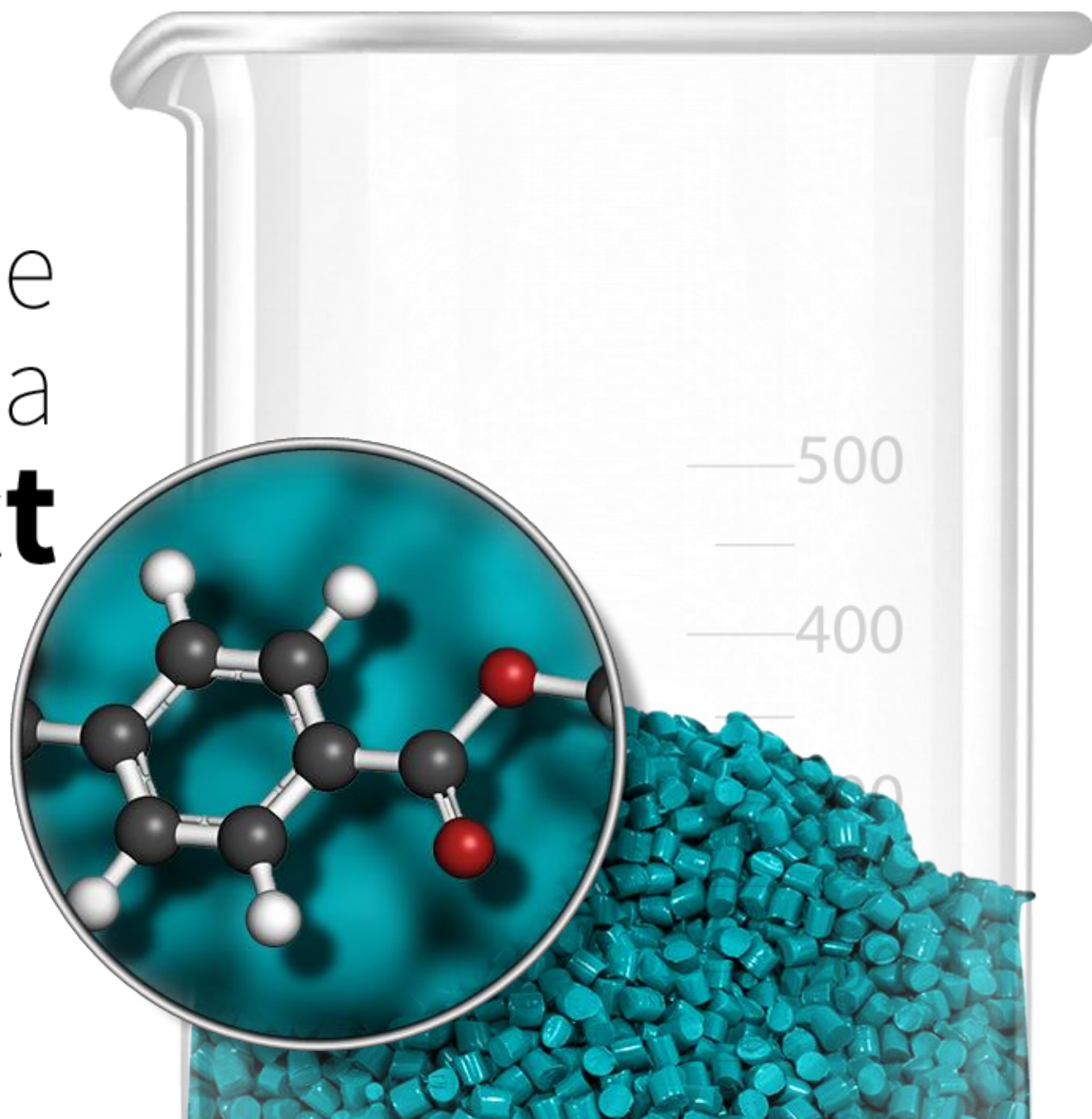
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Adding
value

Benefit from
High
Expertise

Exploring
new markets >



to deliver you the
best solutions for a
great product
in all senses





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