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# **MECOSTAT<sup>®</sup>-3**

**Antistatic Coating Agent for Plastics**

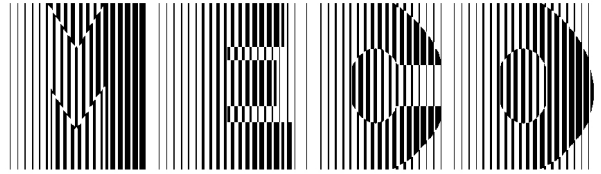
**Food Packaging and Technical Applications**

**Special Type for Stretching Applications and Oriented Films**

**MECOSTAT<sup>®</sup>-3/744**

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## **General**

**MECOSTAT-3/744** Surface antistatic agent is a concentrated, highly effective liquid coating material for the antistatic and antiblocking finishing of plastic surfaces as well as for improving slip properties.

The coating's resistance to temperature ensures that subsequent stretching can be performed without suffering any damage. Furthermore, the antistatic finishing of the material remains virtually unaffected by the stretching of the material after coating.

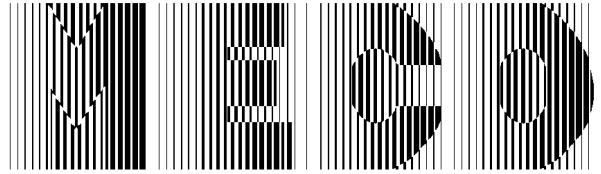
## **Areas of Application**

Antistatic treatment of

- oriented films (BOPP, BOPET etc.)
- sheets, plates, profiles
- food packing
- packing for electronic construction units and devices

## **Typical Properties of the Coating with MECOSTAT-3/744**

- long term antistatic treatment for several years with reduction of the surface resistance as far as  $10^8 \Omega$  at standard climatic conditions
- antistatic effect also at low humidity (< 30%)
- strong adhesion of the antistatic agent to the plastic surface resulting in high stability against physical effects such as friction etc.
- temperature resistant coating results in unproblematic thermoforming or stretching without impairing the antistatic finishing
- excellent wetting properties on plastic surfaces resulting in good antistatic finishing even under difficult stretching conditions
- the slip properties of the plastic surfaces are considerably improved by the coating
- no migration into the liquid filled, no accumulation during recycling
- striation-free highly transparent coating
- **MECOSTAT-3/744** is highly productive and therefore keeps down costs of antistatic finishing
- usable in the packing industry for foodstuffs according to EC-Directives
- problem-free recycling of coated plastics



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## **Processing Directions**

- the following processes are suitable for coating: immersion, felt application, roll coating and application by flexographic or gravure printing, spray coating, rotary coating (the appropriate procedures depend on the purpose of application).
- coating quantity: according to the purpose of application between 2 and 12 g per sqm (wet coating amount), depending on required effect and stretching ratio
- before further processing or rolling up the film the coated surface must be completely dry (if required, drying with warm air)
- **MECOSTAT-3/744** is supplied as a ready for use solution
- machine parts which come into contact with liquid **MECOSTAT-3/744** should be made of corrosion proof materials.
- a combination of **MECOSTAT-3/744** with antistatic additives is not recommended because of possible reactions
- depending on the application, a corona pretreatment is recommended (e.g. polyolefines and polystyrene)
- for detailed processing and safety information, please refer to the appropriate safety data sheet
- due to the large number of applications and processing procedures we would like to point out that corresponding tests have to be performed by the customer to make sure that there will be no incompatibility with the raw materials, additives and the processing procedures

## **Safety**

**MECOSTAT-3/744** as well as the raw materials contained in it comply with the appropriate EC-Directives on the antistatic finishing of plastics in food packaging.  
**MECOSTAT-3/744** is environment-friendly and easily biodegradable.

## **Service**

We offer comprehensive technical advice with regard to both, to the right choice of the right type of material for application and to the coating systems.

Our application technology department is at your disposal for the conception of optimal application systems, as well as for preparing upgrade suggestions for installations already in use.