

# Einar® 201



EINAR® SUSTAINABLE, FOOD-GRADE, PLANT- BASED ADDITIVES

## product profile

Einar® 201

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- Einar® 201 is the perfect food contact-approved general purpose antistat for PP injection moulding applications
- Einar® 201 offers excellent mould release and de-nesting properties

### Product type and description



**Einar® 201** is a distilled monoglyceride made from fatty acids and glycerol both of vegetable origin. It is completely free of amines and amide.

Physical/chemical properties * :	monoglycerides free fatty acids free glycerol melting point colour form at 25°C	min. 90% max. 1.5% max. 1% approx. 65°C off-white pellets or powder
Storage conditions:	Should be stored in cool and dry place in tightly closed packaging	
Packaging:	20 kg multiply paper bag with an inner polyethylene bag (35 bags per pallet) or 500 kg anti-static polyethylene big-bag	
Product form:	Einar® 201 comes in both powder and pellet form	
Total shelf life ** :	24 months	

### Product benefits and application

Functions:	Features
Internal antistatic agent:	Prevents dust attraction to plastic articles Offers denesting properties Prevents electrical discharge when processing or handling plastic products
Mould release:	Efficient mould release for all PP injection moulding applications

\* Palsgaard uses internally validated test methods for measuring physical/chemical properties, which meet common internationally used test methods.

\*\* Shelf life starts from production date when the product is stored in unbroken packaging. It should be ensured that the storage conditions specified in the product data sheet are followed.



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### Recommended Polymers: Polyolefins (PP, PE), PVC

#### Antistat

**Einar® 201** is an excellent general purpose antistat for a broad range of PP injection moulding applications and will ensure clean, dust free and an attractive appearance of packaging, appliances and other household products. Recommended loading levels for homopolymer PP are 0.3 - 0.5% and for random copolymers is 0.1 - 0.3%.

**Einar® 201** will provide the necessary mould release and denesting properties when incorporated in both random copolymer and homopolymer PP at the recommended levels for good antistat performance.

#### Mould release

**Einar® 201** is a very reliable general purpose mould release for PP injection moulding applications. The product can be dosed at an optimum concentration in both homopolymers, random and impact copolymers and will secure efficient release of moulded parts.

**Einar® 201** has an ideal migration profile in PP that guarantees sufficient lubrication and will promote lower cycle times and continuous operation.

**Einar® 201** is also an efficient denesting additive and allows easy separation of stacked parts. Recommended loading levels for homopolymers are 0.2 - 0.4%, for random copolymers 0.1 - 0.2% and for impact copolymers 0.3 - 0.5%.

#### Ageing modifier

The high consistent quality of **Einar® 201** guarantees reliable and dependable performance when PE and PP foam is conditioned after manufacture for release of excessive blowing agent. A typical loading level of **Einar® 201** when foams are produced with physical blowing agents is 0.4 - 1.5%. Loading levels in combinations with chemical blowing agents are typically 0.2 - 0.5%.

#### PVC processing aids and lubricants

**Einar® 201** will offer good lubrication properties for a range of different extrusion applications and is primarily an internal lubricant. Typical loading levels are 0.3 - 1.0%.

**Einar® 201** is also a very good mould release for many PVC injection moulding applications and is typically used at loading levels of 0.3 - 0.6%.



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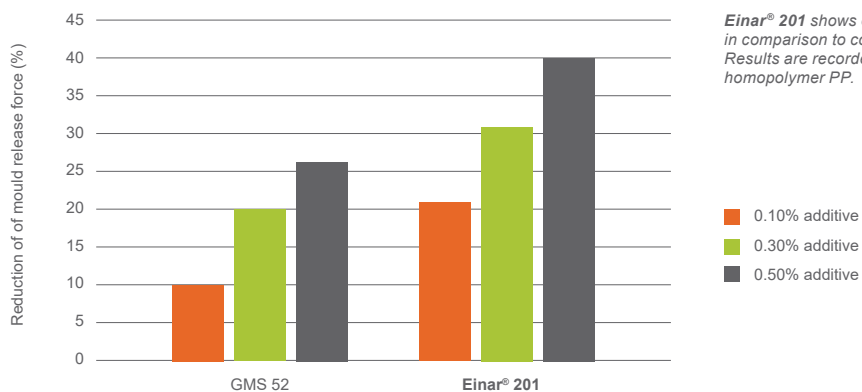
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## Test results in final application

### Mould release performance

**Einar® 201** has fast migration and good antistatic performance in both injection molding and extrusion applications. **Einar® 201** is also an excellent general purpose mould release for PP.

#### Mould release properties in homopolymer PP



*Einar® 201 shows excellent performance in comparison to conventional GMS. Results are recorded in 20 MFI homopolymer PP.*



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## Sustainable solutions for the polymers industry

### Health and Safety

The product is identified as non-toxic and is not expected to cause irritation to the skin, eyes or lungs. Detailed MSDS is available on request.

### Legal status and other regulatory information



#### The product

- is in full conformity with the requirements for purity and identity laid down by the EU Council, currently Regulation (EU) no. 231/2012
- complies with the purity requirements of FAO/WHO regarding food additives (JECFA)
- is manufactured in accordance with Danish- and EU regulations and under hygienic conditions
- is fit for human consumption, or for production of food intended for human consumption
- may be used in plastic materials and articles intended to come into contact with foodstuffs in accordance with Regulation (EC) No. 10/2011 on plastic materials and articles intended to come into contact with food
- is GRAS according to FDA 21 CFR 184.1505, and may in accordance with FDA 21 CFR 174.5 be used as components of articles intended for contact with food

#### The producer (Palsgaard)

- is authorized by the Danish Veterinary and Food Administration

**Mass balance Certificate (RSPO)** *available on request with order*

**Kosher & Halal certificates**

*available on request*

**REACH registration**

*available on request*

### Documentation package

- Product profile
- Product data sheet
- MSDS
- Certificate of performance

For further information please contact

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**Palsgaard®**  
Heart working people