



Einar[®] Polymer Additives

PLANT-BASED, FOOD-GRADE SOLUTIONS, SAFE ENOUGH TO EAT

Palsgaard[®]

Innovation starts with demand

Three trends dominate the polymer business today: Food safety, sustainability and product optimisations. While simple in the eyes of consumers, a lot of thought goes into formulating, producing and handling plastic products – all with the three trends in mind.

Polymer additives that are safe enough to eat

Beneficial to both producers and customers, Palsgaard addresses the concern over harmful substances coming into contact with their food as all of our polymer additives are essentially food ingredients.

The polymer industry also needs sustainable alternatives to petrochemical-based products that do not compromise the quality and functionality of the end products. Based solely on vegetable oils and produced in CO₂-neutral factories, Palsgaard offers the most sustainable additives on the market.

Whether you are looking to produce thin-walled packaging, laminate films or simply find a better alternative to your current additive, Palsgaard helps you push the boundaries as our additives match or surpass the performance of conventional additives.

We have the answer: Einar® from Palsgaard

Palsgaard's Einar® series of additives for masterbatches and polymer applications is based on food-grade vegetable oils such as sunflower oil, rapeseed oil and RSPO-certified palm oils and is produced in CO₂-neutral factories.

With Einar®, you can market your packaging solutions and masterbatches with a sustainable profile while retaining the efficiency and attractive appearance of your products.

Dedicated R&D and application lab

With production in Denmark, the Netherlands and Malaysia, Palsgaard covers most of the globe – and at our dedicated polymer application lab in Denmark, our scientific staff and product specialists are always ready to assist you in developing and testing new polymer applications.

Einar® product overview

| | APPLICATION | EFFECT | PRODUCT | DOSAGE |
|---------------|----------------------|--|------------------------------------|--------------|
| POLYPROPYLENE | Pigments | Dispersion | Einar® 103 | 2 - 5% |
| | Injection moulding | General purpose anti-stat | Einar® 201, Einar® 207, Einar® 306 | 0.1 - 0.5% |
| | | Anti-stat for impact copolymers | Einar® 401 | 0.5 - 1.0% |
| | | Mould release | Einar® 201, Einar® 207, Einar® 221 | 0.1 - 0.5% |
| | Compression moulding | Mould release | Einar® 221 | 0.1 - 0.3% |
| | Film | Anti-stat | Einar® 411, Einar® 204, Einar® 408 | 0.1 - 0.4% |
| | | Cold fog in cast and BOPP film | Einar® 618 | 1.0 - 2.0% |
| | | Hot fog in cast and BOPP film | Einar® 422, Einar® 618 | 0.5 - 1.5% |
| | Foam | Ageing modifier | Einar® 201 | 0.5 - 2.0% |
| | | Anti-stat | Einar® 401 | 0.1 - 0.4% |
| | Anti-fouling | Reactor anti-stat | Einar® 981 | 0.01 - 0.03% |
| POLYETHYLENE | Pigments | Dispersion | Einar® 103 | 2 - 5% |
| | Film | Anti-stat for LDPE and LLDPE | Einar® 601 | 0.1 - 0.4% |
| | | Anti-stat for HDPE | Einar® 601 | 0.3 - 0.6% |
| | | Anti-fog for coextruded and laminated film | Einar® 611, Einar® 618 | 0.2 - 0.4% |
| | | General purpose cold and hot fog | Einar® 211, Einar® 614 | 0.2 - 0.6% |
| | Injection moulding | Anti-stat | Einar® 601 | 0.5 - 1.0% |
| | | Mould release | Einar® 201, Einar® 207 | 0.2 - 0.6% |
| | Foam | Ageing modifier | Einar® 201 | 0.5 - 2.0% |
| | | Anti-stat | Einar® 601 | 0.2 - 0.5% |
| | Anti-fouling | Reactor anti-stat | Einar® 985 | 0.01 - 0.03% |
| EPS | Coating additives | Anti-stat | Einar® 501 | 0.1 - 0.6% |
| | | Cooling time enhancer | Einar® 511 | 0.1 - 0.4% |
| | | Anti-stat and cooling time combo product | Einar® 531, Einar® 533 | 0.2 - 0.5% |
| | | Full blends GMS/GTS/Zinc stearates | Einar® 543, Einar® 544 | 0.2 - 0.5% |
| PVC | Injection moulding | Anti-stat | Einar® 601 | 0.5 - 1.0% |
| | | Mould release | Einar® 201, Einar® 207 | 0.2 - 0.8% |
| | | Lubricant and processing aid | Einar® 201, Einar® 303, Einar® 306 | 0.2 - 1.0% |
| | Film | Anti-stat | Einar® 601 | 0.5 - 1.0% |
| | | Anti-fog | Einar® 211 | 0.3 - 1.0% |
| PC | Injection moulding | Mould release for optical media grade PC | Einar® 207 | 0.05 - 0.15% |
| PET | Pigments | Dispersion | Einar® 103 | 2 - 5% |

To find out more or to order samples, visit polymers.palsgaard.com or contact us via polymers@palsgaard.com.

Einar® – a name with a legacy

Einar® was chosen as the brand name for our polymer additives as a tribute to Einar Viggo Schou, who invented the modern food emulsifier in 1917 and subsequently founded Palsgaard in 1919.

From the beginning, Einar Viggo Schou laid down a set of social and corporate values we continue to follow at Palsgaard today. In naming our polymer product range after him, we invoke his legacy of innovation, dedication and responsibility towards the world around us.

Learn more about our heritage and values at
polymers.palsgaard.com



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Palsgaard®
♥ Heart working people