



Einar®



Einar® additive solutions for PVC

- Einar® 601 is an excellent anti-stat for extruded and injection moulded PVC
- Einar® 211 is the ideal anti-fog for PVC cling wrap
- Einar® 1103 offers excellent anti-stat coating
- Einar® products are approved for food contact applications

Application background

PVC is a versatile thermoplastic polymer with a very wide range of potential uses. Flexible PVC has a significant presence in medical applications and is used in food packaging whereas rigid PVC has a dominating position in the building and construction industry and in general is a preferred option in many applications for outdoor usage.

PVC needs additives for both processing and functionality in the final application and the polymer will not be of much use without a basic formulation of additives.

Lubricants for processing are important. Anti-stats and anti-fogs are used in PVC for certain applications, but they are mostly in smaller volume applications in food and medical.

Nevertheless, it is important that these additives have the necessary functionality to be migratory in PVC and be able to interact with atmospheric moisture levels or condensing water in packaging applications in order to reach acceptable performance levels.

Einar® additive solutions for PVC

Einar® 601 for anti-stat applications

The use of efficient anti-stats in PVC is important in a range of different applications as both plasticized and rigid PVC will need anti-stat protection for various uses. Einar® 601 offers excellent anti-stat protection in PVC where it has the right migratory profile to build anti-stat protection on the polymer surface. It has shown very good results in both rigid PVC as well as in combination with plasticizers. Recommended loading levels are 0.5 - 1.0% for most applications and may be higher in certain highly plasticized formulations.

Einar® 1103 for anti-stat coatings

Einar® 1103 is a water-based anti-stat coating solution. Uniquely efficient, it will work at coating concentrations down to 10 mg/m² and with a coating thickness of 10 nm. It can be applied to PVC by either roll or spray coating and will leave only a thin, invisible layer of additive coating.

Einar® 211 for anti-fog applications

Einar® 211 is an excellent performer for PVC film and works particularly well in cling film applications where the objective is to obtain a good and reliable performance in either a cold fog or a hot fog application. Einar® 211 is a fast acting anti-fog and will produce clear and transparent film for an extended period of time. The recommended loading level of Einar® 211 is 0.5 - 1.0% for cold fog applications and for hot fog the recommended loading level is 0.3 - 0.6%.

Einar® processing aids and mould release agents

Einar® 201 and Einar® 303 will offer good lubrication properties for a range of different extrusion applications and they are primarily internal lubricants. Typical loading levels are 0.3 - 1.0%.

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

Your direct benefits:

- Einar® 601 – Highly efficient anti-stat protection
- Einar® 211 – Very good anti-fog performance in PVC cling film
- Einar® 201 – Lubrication and mould release properties
- Worldwide approved for food contact
- Consultancy and technical evaluations available from our technical team

Other offerings from the Einar® range:

- Einar® 601 for anti-static in PE applications
- Einar® 618 and Einar® 422 for anti-fogging in PP applications
- Einar® 611 and Einar® 614 for anti-fogging in PE applications

Contact us and let us help you develop and test the optimum additive solutions for your PVC applications.

Find out more at polymers.palsgaard.com