



Einar®



Einar® slip additive solutions for PET

- Einar® 621 is an excellent slip additive for most PET applications
- Einar® 621 has high temperature stability with low volatility during processing
- Einar® 621 is approved worldwide for food contact

Application background

PET is widely used in the food packaging industry. In addition to its excellent mechanical and optical properties, it also exhibits very good barrier properties. However, one of the challenges of processing and handling PET is its strong surface adhesion. Therefore, slip additives are required to reduce the coefficient of friction of the polymer surface during processing, handling and application.

PET is processed at higher temperatures (280 - 320°C) and shows sensitivity towards hydrolysis. Due to hydrogen bonding, migration of additives through the PET matrix is more demanding. This means that polymer additives for PET require very specific properties. Polarity of the additive, high temperature and chemical stability during processing are all important parameters to be considered.

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Slip additive applications

Einar® 621 is an efficient slip additive that can bring the coefficient of friction (CoF) down to 0.2 in most applications and will facilitate better handling and processing of film, sheet and finished product. Einar® 621 is a chemically stable compound with excellent heat stability and low volatility and will match the specific requirements of processing PET, even under highly demanding conditions.

Due to its excellent lubrication properties, PET films, injection moulded and thermoformed products containing 1.0 - 2.0% of Einar® 621 show instant and significantly reduced surface friction. Einar® 621 is fully compatible with fillers used as antiblocking agents – a combination where Einar® 621 will also perform very well.

Your direct benefits:

- Efficient reduction of CoF
- Thermally stable and low volatility during processing
- Excellent compatibility with PET
- Works well with antiblocking agents
- Reduced surface defects during processing
- Worldwide approval for food contact applications
- Consultancy and technical evaluations available from our technical team

Other offerings from the Einar® range:

- Einar® 601 for antistatic in PE applications
- Einar® 618 and Einar® 611 for antifogging in PP applications
- Einar® 211, Einar® 611, Einar® 614 and Einar® 618 for antifogging in PE applications

Contact us and let us help you develop and test the slip additive solution for your PET products.

Find out more at polymers.palsgaard.com

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