



# Einar®



## Einar® antistat solutions for polyethylene (PE)

- Einar® 601 has excellent antistat performance in all LDPE, LLDPE and HDPE applications
- Einar® 601 is completely free of any amine and amide chemistry
- Einar® 601 is approved worldwide for food contact applications

### Application background

PE film is commonly used in a very broad range of packaging applications and the need for efficient antistats is crucial in the packaging of powdered products. It is required that bags can be properly heat sealed and there should be no contamination from packaged products in the heat seal area. An efficient antistat protection that will work well, also under low humidity conditions, ensures smooth operation with packaging of powdered products on high speed packaging lines.

In packaging of electronic components, it is a particular requirement that the antistat works well under very low humidity conditions. It must also be guaranteed that the antistat chemistry has no detrimental effects on packaged products such as stress cracking of polycarbonate when the packaging material is in direct contact with polycarbonate components.

# Einar® antistat solutions for polyethylene (PE) films

## Einar® 601 for PE antistat applications

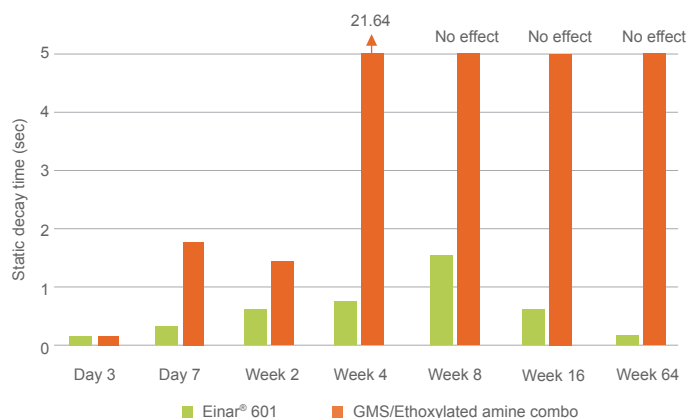
Einar® 601 offers excellent performance in a very broad range of PE applications. In most LDPE and LLDPE film it will provide a good and sufficient performance at low loading levels. In LDPE and LLDPE film the recommended loading level is 0.1 - 0.4%. In HDPE, a highly crystalline material where antistat migration is low, antistat concentrations need to be higher and the recommended loading level is 0.3 - 0.6%.

In coextruded or laminated packaging films, the antistat is often added to a very thin section of the entire film and therefore, the antistat must be a very reliable and efficient performer. Einar® 601 will deliver the performance you need and it has proven to deliver excellent performance when used in the thinner film sections of a sealing layer such as metallocene LLDPE.

Testing is always recommended to determine an optimum antistat loading level. Einar® 601 is based on a very efficient antistat chemistry and can be dosed at an optimum level to deliver the performance you need in these high demanding applications.

### Antistat performance in LDPE blown film

Additive concentration is 0.10%



*Einar® 601 is an unmatched performer in PE film with both immediate and long term performance*

## Your direct benefits:

- Excellent antistat protection across a very broad range of PE applications
- The ideal antistat solution for coextruded and laminated film
- No amine and amide chemistry
- Very good performance at low humidity – good antistat for electronic packaging applications
- No stress cracking of electronic components
- High heat resistance and low volatility
- Worldwide approved for food contact
- Consultancy and technical evaluations available from our technical team

## Other offerings from the Einar® range:

- Einar® 601 for antistatic protection of polyolefin foams
- Einar® 618 and Einar® 422 for antifogging polypropylene (PP) applications
- Einar® 614, Einar® 611 and Einar® 211 for antifogging polyethylene (PE) applications

Contact us and let us help you develop and test the optimum antistat solution for your PE films

Find out more at [polymers.palsgaard.com](http://polymers.palsgaard.com)

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