



Einar®



Anti-static agents and ageing modifiers for polyethylene (PE) and polypropylene (PP) foam

- Einar® 601: Excellent anti-stat for foamed PE with no adverse effects on foam stability
- Einar® 207: Ageing modifier for high and consistent foam quality

Application background

Polyethylene and polypropylene foams are very popular and widely used packaging materials. They are resilient, return to form after compression, and provide effective cushioning and security where needed. It is these characteristics, combined with their versatility and customization possibilities, that make them so useful in many applications.

Ageing modifiers are used to ensure the production of high quality foam and provide crucially important functionality to guarantee stable foam that will not collapse when products are conditioned to ensure release of excessive blowing agent.

Efficient anti-stat protection is needed in many electronic packaging applications. It is vital that performance is good and that the packaging remains reliable even when humidity is low.

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Einar® 601 for anti-stat applications

The use of efficient anti-stats in PE and PP foam is particularly important in the packaging of sensitive electronics, where static build-up may result in electrostatic discharge that will be detrimental to circuit boards and other electronic components. Einar® 601 is a proven performer, delivering excellent anti-stat protection to PE foam even at low humidity conditions. Recommended loading levels are 0.2 - 0.5% for most applications.

Einar® 601 has no adverse effect on foam stability. The product is a 100% amine and amide-free solution and will not interact with ageing modifiers such as Einar® 207. Due to its chemistry there are no issues with stress cracking of polycarbonate when packaging materials are in direct contact with packaged electronic components.

Einar® 207, an efficient ageing modifier

The high consistent quality of Einar® 207 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® 207 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%.

Your direct benefits:

- Highly efficient anti-stat protection
- No amine and amide chemistry
- Ensures high foam quality
- No stress cracking of electronic components
- Approval for food contact applications
- 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 for anti-fogging in PP applications
- Einar® 611 and Einar® 211 for anti-fogging in PE applications

Contact us and let us help you develop and test the optimum anti-stat solution for your PE and PP foam applications.

Find out more at polymers.palsgaard.com