



Product information

Business Case – New detectable material for the food industry: TECACOMP POM ID

Ensinger is expanding its portfolio of detectable materials to include TECACOMP POM ID 1055303. The POM-C-based compound has been developed for injection moulding applications. Ensinger has succeeded in making a product that exhibits significantly improved detectability compared to similar materials from competitors.

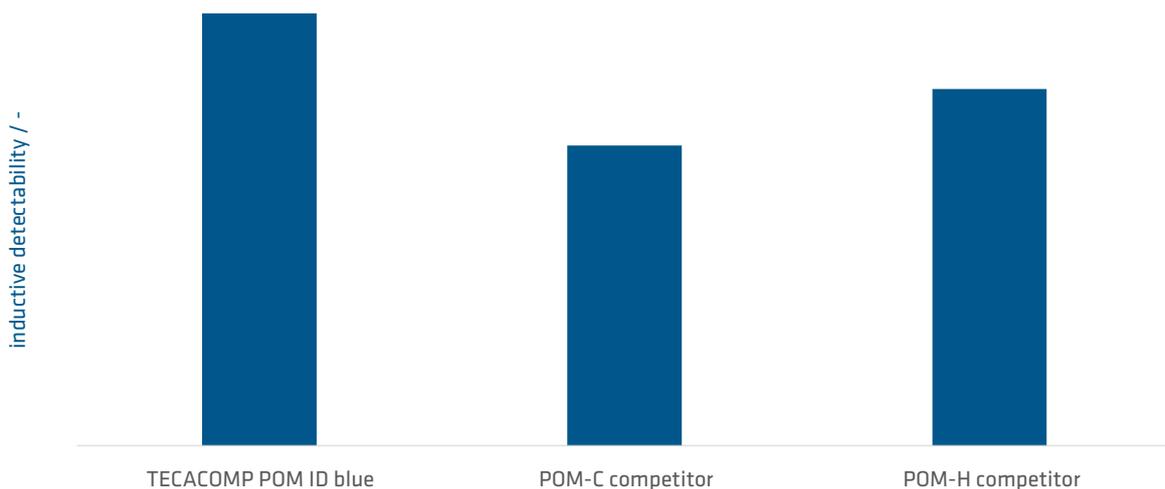
When developing detectable plastics, the aim is always a compromise between processability, detectability, and mechanical properties. Essentially, higher detectability is at odds with ease of processing and technical properties, but Ensinger has managed to produce a very balanced material which can be processed easily and displays outstanding technical characteristics.

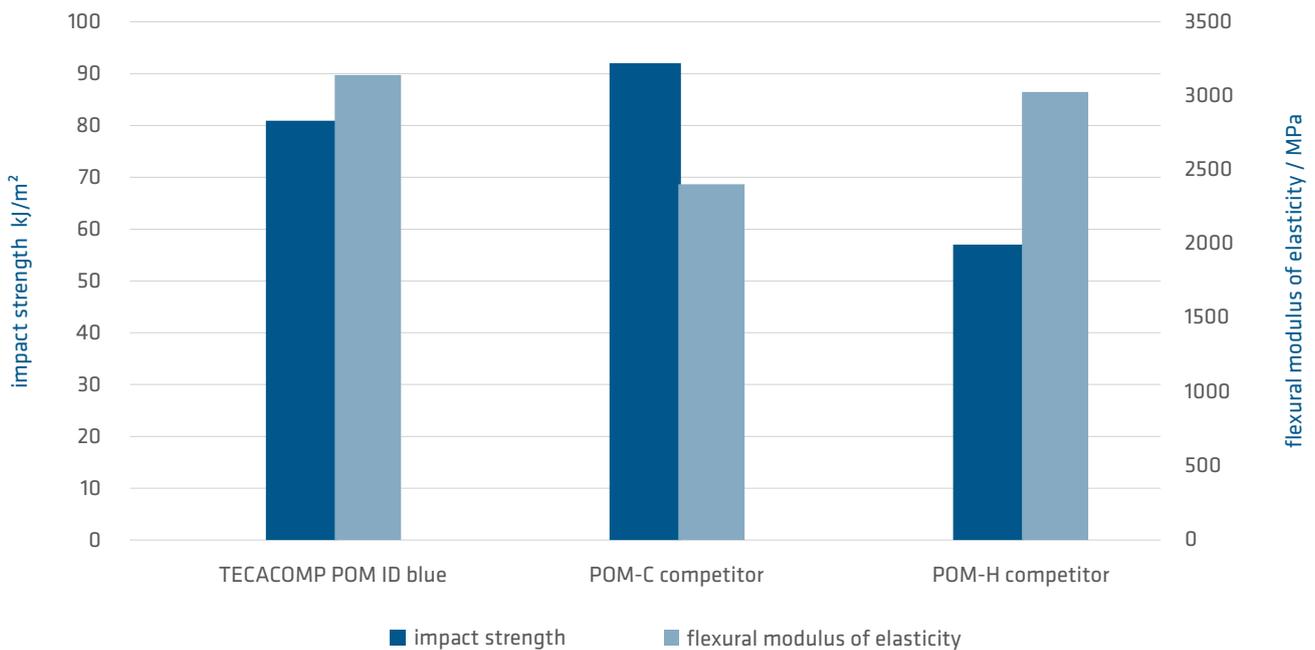
→ The blue colour meets the food industry's requirement for a colour shade which enables visual quality control during production as well as detectability.

→ TECACOMP POM ID 1055303 is particularly recommended for applications in which not only detectability but also high levels of toughness and strength, together with specific friction and wear requirements, are crucial.

→ Alongside these core properties, the compound is particularly suitable for use at low temperatures – down as far as -50°C (for example in freeze-drying) – thanks to its low glass transition temperature.

→ Furthermore, the material stands out for low moisture absorption and good chemicals resistance, meaning that it is ideal for use in a wet environment which is cleaned frequently.





Ensinger has an extensive portfolio of detectable materials, from LD-PE to PEEK. All the detectable compounds from Ensinger can be detected both inductively and by X-ray, and thereby fulfil the requirements of (EU) Regulation 10/2011 and of the FDA.

The wide range of products, coupled with individual advice by dedicated colleagues, forms the ideal basis also for finding the perfect material solution for your application.

Abstract

- Very tough and highly detectable
- Suitable for temperatures down to -50°C
- Low moisture absorption
- Very good chemicals resistance
- Good processability

Summary

The formulation of the new Ensinger POM ID compound has been optimized in such a way that it has significantly improved inductive detectability compared to the competition and can be processed more efficiently. With these special properties, TECACOMP POM ID 1055303 is suitable for applications in the food industry where safety, tribology and mechanics are important issues.

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