

PRESS RELEASE

21 April 2022

Ensinger: Compound for detectable injection-moulded components

TECACOMP POM ID is optimised for the food processing industry

Ensinger is launching a new detectable compound. The material, which is based on POM-C, has been specially developed for injection-moulded components used in the food processing industry. TECACOMP POM ID 1055303 has been optimised in such a way that the components made from it have good mechanical and tribological properties as well as being easy to detect.

Detectable high-performance plastics increase safety in food production. They are used in all situations where the products being processed must not be contaminated with plastic fragments from equipment, cable ties or transport boxes. Even small particles of the filled Ensinger ID compounds can be reliably detected and separated out using metal and X-ray detectors. They are also visually noticeable thanks to their inherent blue colour.

A high proportion of additives ensures good detectability, but may also have a negative impact on processability during injection moulding and on the mechanical properties of the component. Consequently, Ensinger has optimised the formulation of the new POM ID compound in such a way that the material has significantly improved inductive detectability compared with rival products, and yet can still be processed very easily. The base polymer of the compound, namely the engineering plastic POM-C, stands out for good sliding friction properties and a good combination of toughness and strength. With these special characteristics, TECACOMP POM ID 1055303 is suitable for applications in the food industry, which place high demands on safety and tribological and mechanical properties.

A low glass transition temperature also enables them to be used at temperatures down to minus 50 degrees Celsius, for example in freeze-drying units. Low moisture absorption and good hydrolysis and chemical resistance also make it a promising material for use in wet environments which are cleaned frequently. The compounds fulfil the requirements of (EU) Regulation 10/2011 and of the FDA.

Ensinger offers an extensive portfolio of detectable ID compounds. The base polymer can be selected from PP, PA66, POM and PEEK, and different fillers are available. Application consultants from Ensinger advise customers with choices depending on the individual application. A further service provided by the compounds specialist is a detection kit, with the aid of which the required fill level for the compound can be checked at the customer's premises using the detector.

More information: www.ensingerplastics.com/de-de/compounds/detektierbar

Visit Ensinger at the Anuga FoodTec in Cologne, April 26-29, 2022: Hall 5.2 / Booth C064.

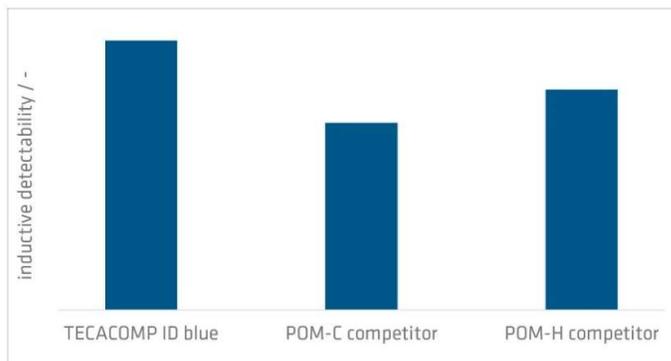
The Ensinger Group is engaged in the development, manufacture and sale of compounds, semi-finished materials, composites, technical parts and profiles made of engineering and high-performance plastics. To process the thermoplastic polymers, Ensinger uses a wide range of production techniques, such as extrusion, machining, injection moulding, casting, sintering and pressing. With a total of 2,600 employees at 33 locations,

the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices.



Picture caption:

Engineered specifically for injection-moulded components used in the food processing industry: TECACOMP POM ID 1055303



Picture caption:

Ensinger has optimised the formulation of the new POM ID compound in such a way that the material displays significantly improved inductive detectability but can still be processed easily.

For editorial queries

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